

## SERVICE MANUAL

## Remote Control Plasma Color Television

**DP42746** (U.S.A.)  
(CANADA)

ORIGINAL VERSION



**Chassis No. 42746-00**

**NOTE:** Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

**If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.**

**Servicing should be performed by only trained and qualified service personnel.**

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### Specifications

Power Rating .....	120VAC 351W, 4.2A (Max)
Antenna Input Impedance .....	75Ω UHF/VHF/CATV Digital
Receiving Channel .....	2 - 13 (VHF), 14 - 69 (UHF), 01, 14-94, 95-125 (CATV) 1-99 (Digital)
Remote Ready .....	32 Key Remote Control
Sound Output .....	5.0 W/CH
Intermediate Frequency	
Picture IF Carrier .....	45.75MHz
Sound IF Carrier .....	41.25MHz
Color Sub Carrier .....	42.17MHz
Cabinet Dimensions	
Width .....	1206mm
Height .....	720mm
Depth including base .....	248mm

# SAFETY INSTRUCTIONS

## SAFETY PRECAUTIONS

**WARNING:** The chassis of this receiver has a floating ground with the potential of one half the AC line voltage in respect to earth ground. Service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

*The following precautions must be observed:*

1. An isolation transformer must be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Comply with all caution and safety-related notes provided inside the cabinet, on the chassis, and on the back.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.
4. Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any television to the customer, the service technician must perform the following safety checks to be sure that the unit is completely safe to operate without danger of electrical shock.

## ANTENNA COLD CHECK

Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to each exposed antenna terminal (UHF and VHF antenna terminals). The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

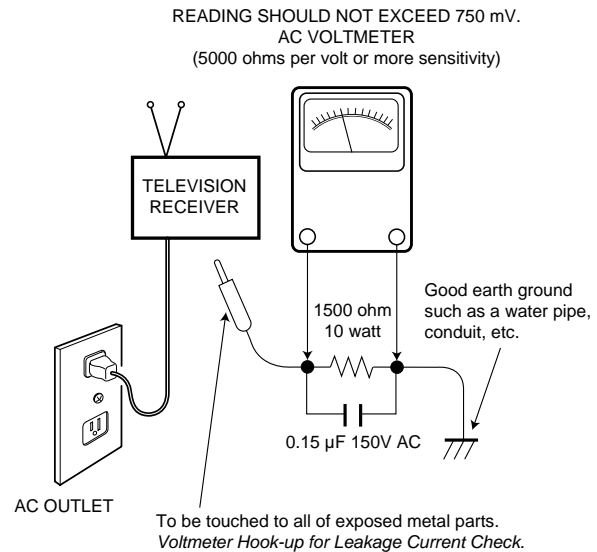
## LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15  $\mu$ F 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

**NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.**

## PRODUCT SAFETY NOTICE

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a star (★) in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.



## SERVICING ELECTROSTATICALLY SENSITIVE DEVICES

Semiconductors (solid-state devices) that can be damaged by static electricity are referred to as Electrostatically Sensitive (ES) devices. Examples of typical ES devices are: Integrated Circuits (IC), Field-Effect Transistors (FET), and "chip" components. The following techniques should be observed strictly, to reduce the occurrence of semiconductor damage due to electrostatic discharge.

1. Immediately prior to handling any semiconductor component or an assembly containing a semiconductor device or devices, discharge the electrostatic buildup on your body by touching a known earth ground. You may also obtain and wear a commercially available discharging wrist strap device.

**CAUTION:** Be sure to remove the wrist strap before applying power to any unit being serviced.

2. After removing an ES equipped assembly, place it on a conductive surface, such as, aluminum foil, to prevent buildup or exposure to static electricity.
3. Use only grounded-tip soldering irons to solder or unsolder ES devices.
4. Use only anti-static solder removal devices. Some suction-type devices can generate static electricity adequate to damage ES devices.
5. A replacement ES device will come packaged in protective material (conductive foam, aluminum foil, or some comparable conductive material). Do Not remove an ES device from its protective packaging unless you are prepared to install it immediately.

6. Precisely prior to removing an ES device from its protective packaging, touch the protective packaging to the chassis or assembly in which the device will be installed.

**CAUTION:** Be sure that no power is applied to the chassis or circuit assembly.

7. Incidental body movements, such as, lifting a foot from a carpeted floor or the rubbing of fabric together can generate static electricity sufficient to damage ES devices. Therefore, minimize all body movements while handling exposed (unpackaged) ES devices.

# SERVICE ADJUSTMENTS

## GENERAL

This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the service adjustments.

## ON-SCREEN SERVICE MENU SYSTEM

### 1. Enter the Service Menu:

- Turn off the receiver and disconnect the AC power supply.
- While pressing the Volume (-) button on the television, reconnect the AC power supply. The Service Menu will now appear. The remote can now be used to make adjustments. See Figure 1 below.

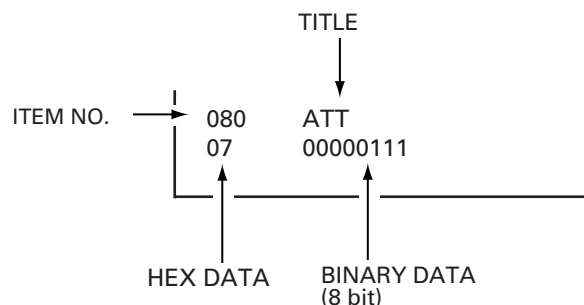
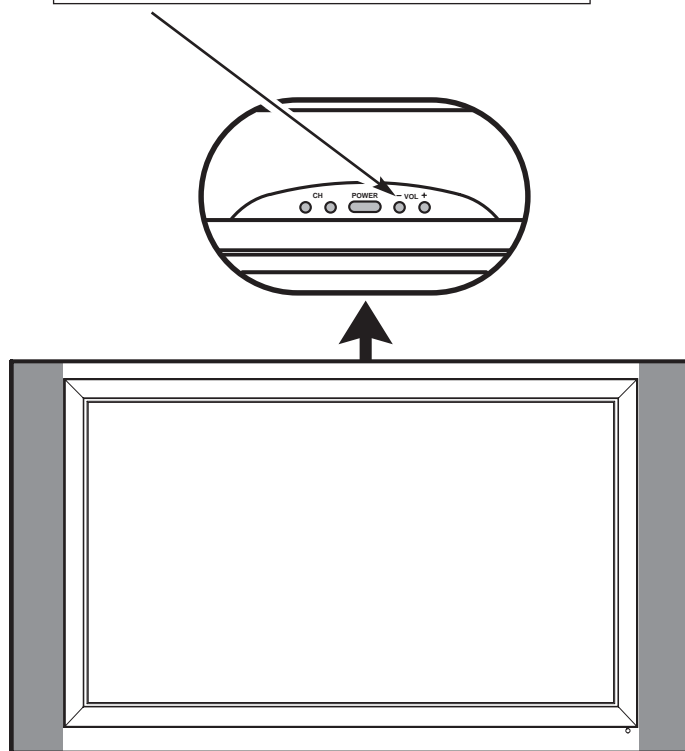


Figure 1. Service Menu Display

Volume - : Enter Service Menu



### 2. Service Adjustments:

- Press the **Channel** ▲ or ▼ key to select the desired service menu item you want to adjust. See page 4 for the On-screen Service Menu.
- Use the **Volume** + or - key or number keys to adjust the data.  
The + or - keys will increase or decrease the data sequentially. The number keys (0 ~ 7) toggle only their respective bits between 1 and 0 and are used to change the Sub-Address. For example to change bit 5 press the number 5 key. See below.

**Note:** Using the + or - is not recommended due to possible rapid changes.

### 3. Exit from the Service Menu:

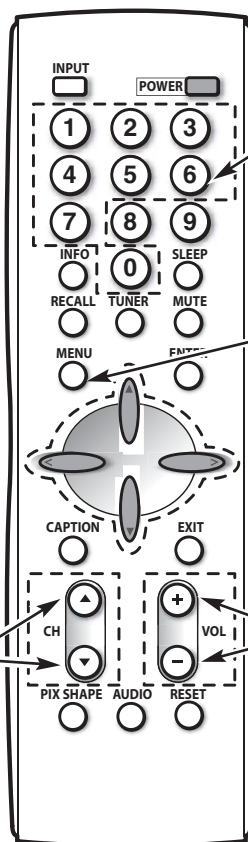
- Press the **MENU** key to turn off the Service Menu display.

(b7) (b6) (b5) (b4) (b3) (b2) (b1) (b0)

0 1 0 1 0 1 1 0

BINARY DATA  
(8 bit)

**Channel ▼ ▲:**  
Select Item



**Numeric:**  
0, 1, 2, 3, 4, 5, 6, 7:  
Change Binary Data

**Menu:**  
Exit Service Menu

**Volume + / -:**  
Adjust Service Menu

# ON-SCREEN SERVICE MENU

**Table 1. ON-SCREEN SERVICE MENU**

When IC802 (EEPROM) is replaced, check the bus data to confirm they are the same as below. The shaded menu should be checked and be set up or readjusted according to the procedures described in the following pages. Initial Setup Data marked with an \* should be changed from Initial Reference Data. See page 3 for On-Screen Service Menu access and adjustments.

No.	TITLE	INITIAL REFERENCE DATA HEX	INITIAL SETUP DATA HEX	INITIAL SETUP DATA BINARY	FUNCTION
080	ATT	07	07	00000111	Attenuation -MTS Input Level (3~0)
081	SPC	20	20	00100000	Spectral - High Separation (5~3)
082	WDB	20	20	00100000	Wide Band - Low Separation (5~0)
083	SCO	00	00	00000000	Sub Color (NOT AVAILABLE)
084	STI	00	00	00000000	Sub Tint (NOT AVAILABLE)
085	SB	00	00	00000000	Sub Bright (NOT AVAILABLE)
086	SSH	00	00	00000000	Sub Sharpness (NOT AVAILABLE)
087	OP1	0A	0A	00001010	b7:PDP HD=0 b3:W/HDMI=1, PDP: b1,b0=10
088	OP2	00	00	00000000	b7:HD=0
08A	PER	00	00	00000000	Temperature Failure History (No Failure = 0, Failure = 1)
	PUT	0000	0000	00000000	Total Operation Time
1C0	↓	↓	↓	00000000	Not Used
1FF	↓	↓	↓	↓	Not Used
200	1R01	00	00	00000000	ROM Correction Data
↓	↓	↓	↓	↓	↓
298	2R48↓	00	00	00000000	ROM Correccion Data

- All data except in gray box area is fixed. Do not change for correct operation.
- Data in gray box is initial. Can be set according to adjustment information.

## PROGRAM CODES

The microprosessor used in this model is a multi-purpose type and is used in several different models. To ensure proper operation and the correct features for your particular model, the program codes must be correct.

**Note 1. Option Data 1 (NO. 087 OPT) should be hexadecimal 0A (00001010 binary).** See 087 above. If this program code is wrong the TV will not operate properly.

**Note 2. Option Data 2 (NO. 088 OP2) should be hexadecimal 00 (00000000 binary).** See 088 above. If this program code is wrong the TV will not operate properly.

# SERVICE ADJUSTMENTS (Continued)

## MULTI-SOUND SECTION ADJUSTMENTS

Note: Multi-Sound Section must be adjusted after A101 (U/V Tuner), IC3401 (MTS Decoder), Digital Module or IC802 (EEPROM) is replaced.

## INPUT LEVEL ADJUSTMENT

1. Connect a signal to the analog antenna terminal with audio of 1 KHz 100% modulation.
2. Turn off the receiver and disconnect the AC power cord (AC 120V line).
3. Connect voltmeter (RMS) to TP317 and ground on the Main PC board.
4. While pressing the VOLUME – key, reconnect the AC power cord. The Service Menu will now appear.
5. Select NO. 080 (ATT: MTS Input Level) with the ▲ or ▼ key.
6. Adjust the + or – key for a voltmeter reading of  $400 \pm 20$  mVrms at TP317.

## SEPARATION ADJUSTMENT

7. Turn off the receiver and disconnect the AC power cord (AC 120V line).
8. Connect oscilloscope CH1 to TP317 and CH2 to TP318 and ground.
9. Connect an MTS TV/Stereo generator to antenna terminal.
10. While pressing the VOLUME – key, reconnect the AC power cord. The Service Menu will now appear.
11. Select pilot, 300Hz audio frequency and Left modulating signal.
12. Select NO. 082 (WDB: Wide Band) with the ▲ or ▼ key.
13. Adjust the + or – key for minimum low frequencies at TP317. See Figure 2.
14. Select 4 KHz audio frequency and Right modulating signal.
15. Select NO. 081 (SPC: Spectral) with the ▲ or ▼ key.
16. Adjust the + or – key for minimum high frequencies at TP318. See Figure 2.

Repeat adjustments (steps 11–16) until no further decreases in amplitude can be obtained. Press the MENU key to turn off the Service Menu display.

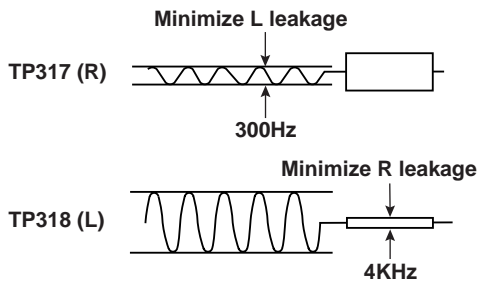


Figure 2. Separation Adjustments

# POWER FAILURE CIRCUIT

CPU (IC801) is programmed so the set will go to the stand-by mode when there is circuit failure as described below. (Refer to "Power Supply Lines.")

1. Power Failure : Detected voltage failure. (Connected to IC801 pin 32.)  
(Normal: High; Failure: Low)
2. Temperature Failure : Detected temperature failure for Power Unit of PDP module. (Connected to IC801 pin 41.)  
(Normal: Low; Failure: High)

## LED Flashing

When IC801 detects the Power Failure 3 times the LED will flash to indicate a power failure has occurred.

Note: The LED does not flash for Temperature Failures.

**Note:** If power failure is detected 3 times in 15 minutes, the set will enter the standby mode and cannot be switched On. To reset the operating programs of the CPU it is necessary to disconnect the AC cord for a short time.

## History of Power Failure

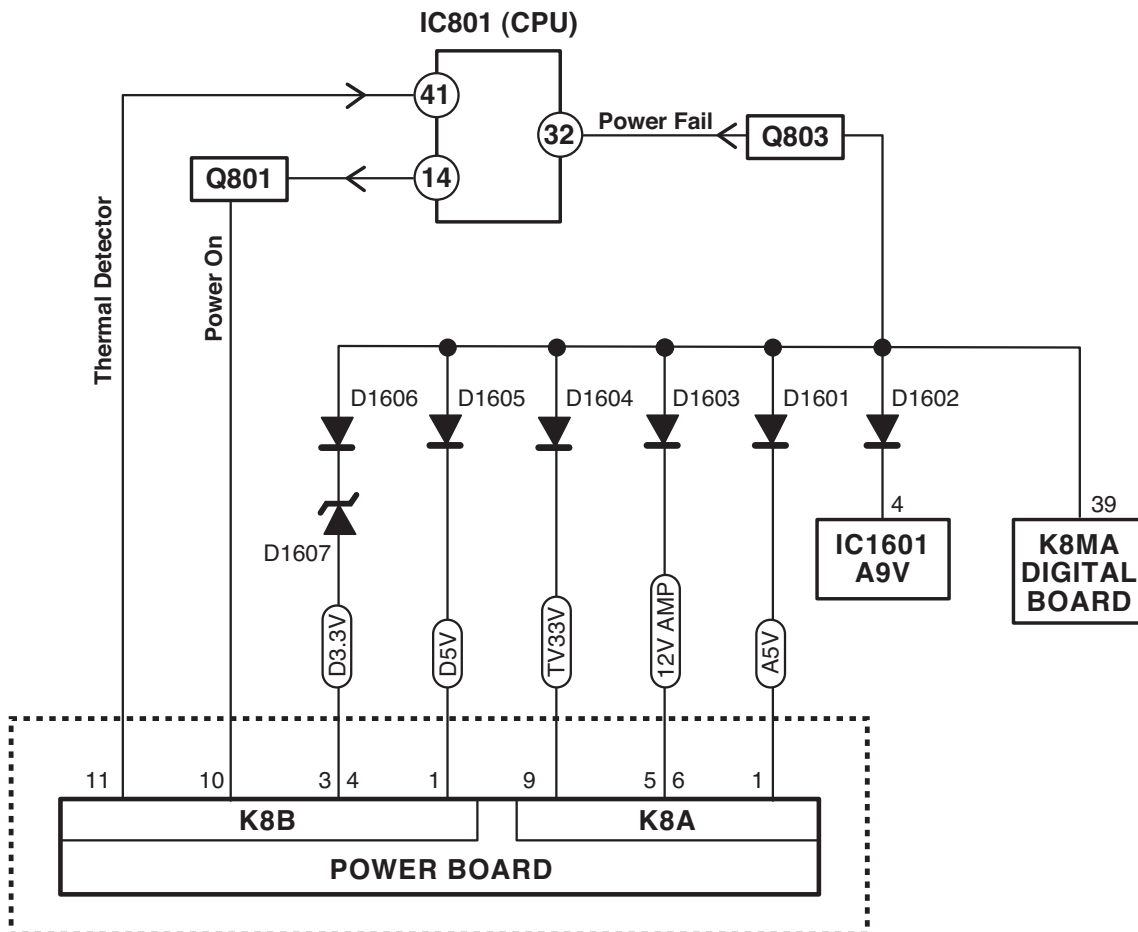
When finishing the repair or stopping the Power Failure, the history of past failures can be checked.

### To see the history

1. Enter the service mode. See "Service Adjustments" page 3.
2. Select Item No. 08A PER Temperature Error.  
If Temperature Failure has accrued the data in Item No. 08A will be 01h (1).

### Attention:

After servicing, reset the data of Item No. 08A to 00h (0) with the Volume + or – key.

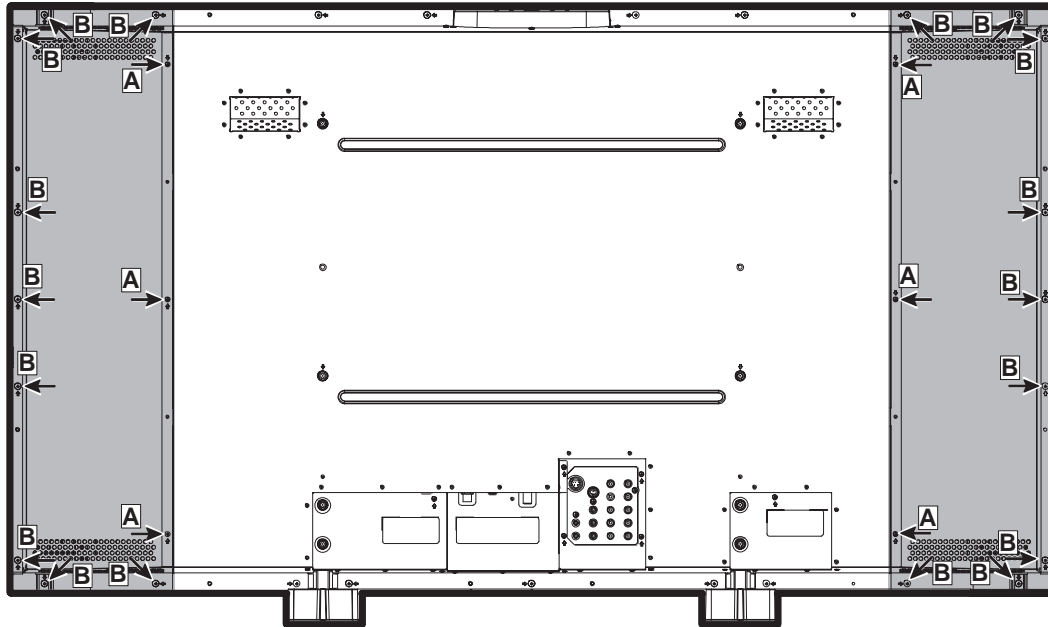


# MECHANICAL DISASSEMBLY

## BACK CABINET REMOVAL – SIDES

Remove 24 screws to take the side cabinets off.

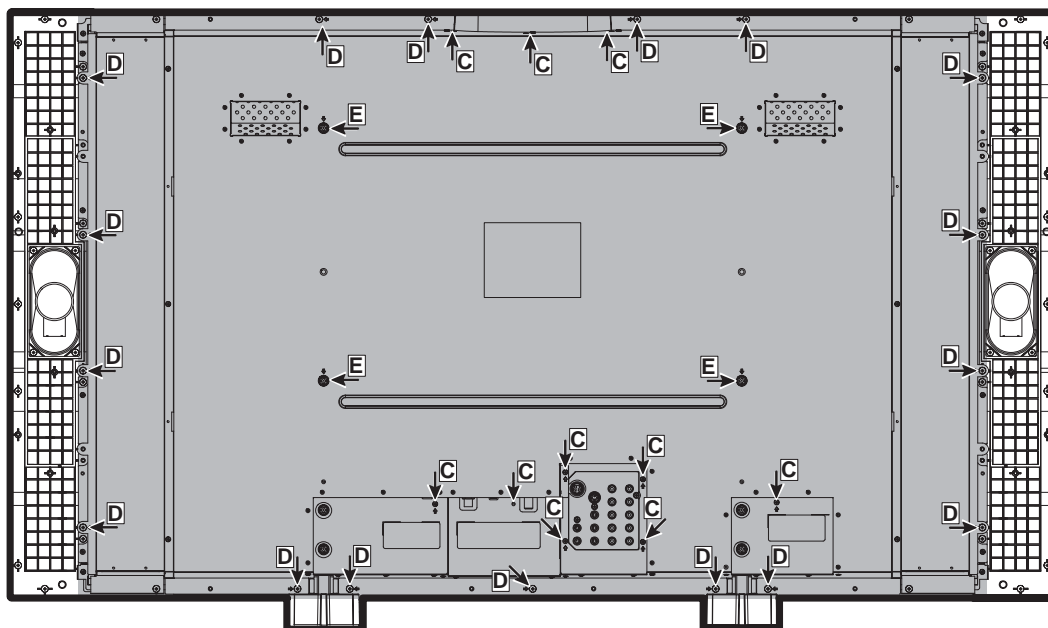
(A:3X8, 6pcs; B:4X12, 18pcs)



## BACK CABINET REMOVAL– CENTER

Remove 31 screws to take the back cabinet off.

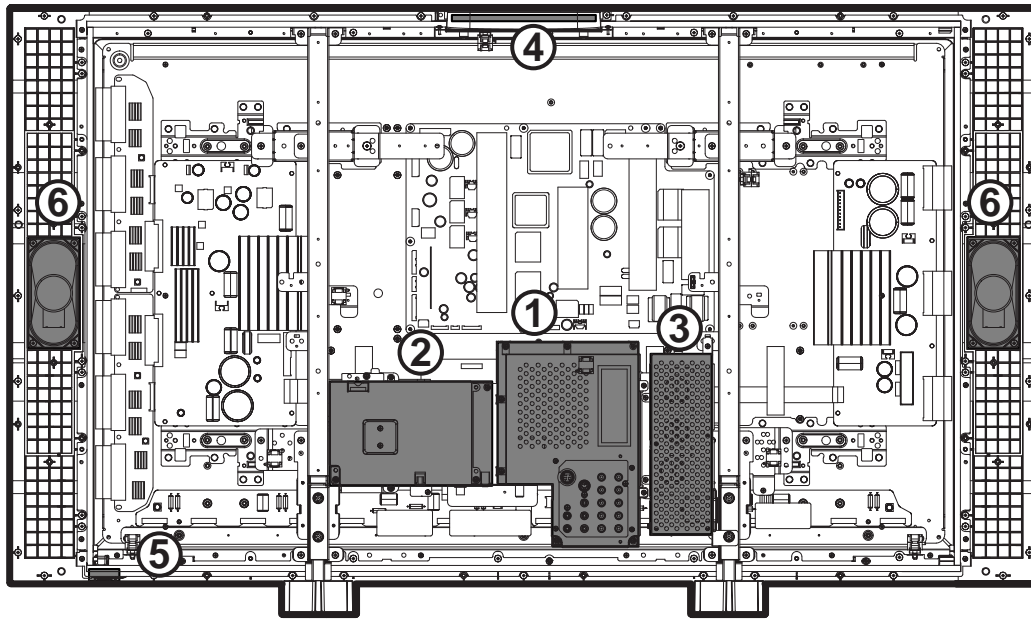
(C:3X8, 10pcs; D:4X12, 17pcs; E:6X18, 4pcs)





# MECHANICAL DISASSEMBLY (CONT.)

## BOARD LOCATIONS



### 1: MAIN BOARD REMOVAL

Remove 2 tuner nuts (Digital and Analog) and take off the terminal base. Disconnect plugs K8MB, K8MA, K8A, K8B, K8F, K8E, and KSP. Remove 11 screws (3X8: 2 types) to take the main board with the shield case (assembly parts) off.

### 2: D-TU BOARD REMOVAL

Remove the terminal base. Disconnect plug K8LV. Remove 5 screws (3X8) to take the D-TU (digital) board with the shield case (assembly parts) off.

### 3: FILTER BOARD REMOVAL

Disconnect plug KAC. Remove 3 screws (3X8) to take the filter board with the shield case (assembly parts) off.

### 4: KEY SW BOARD REMOVAL

Disconnect plug K8E. Remove a screw (4X12) to take the key switch board with the panel, button, and holder (assembly parts) off.

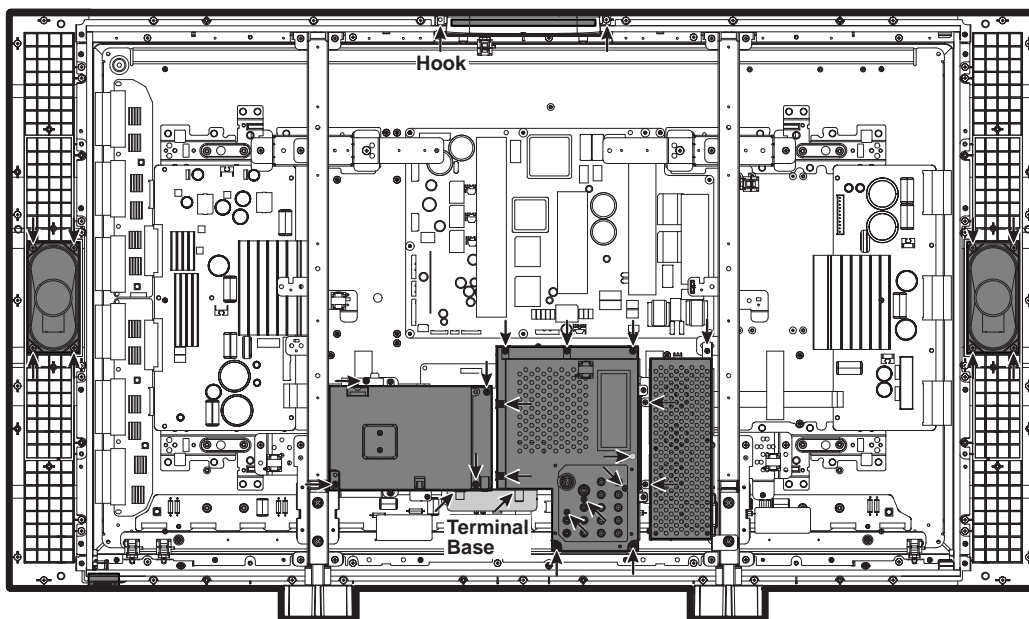
### 5: CONTROL BOARD REMOVAL

The control board can be taken off, after the filter glass is removed. (Refer to 'FILTER GLASS REMOVAL'.)

### 6: SPEAKER REMOVAL

Disconnect plug KSP. Remove 4 screws (4X10) to take off each speaker.

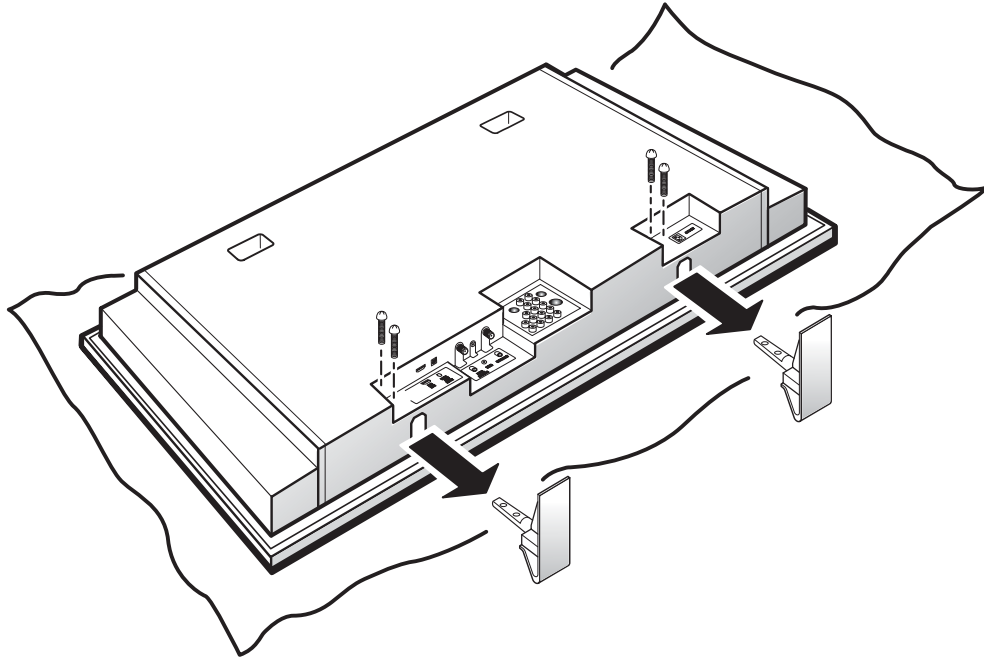
## SCREW LOCATIONS





## STAND REMOVAL

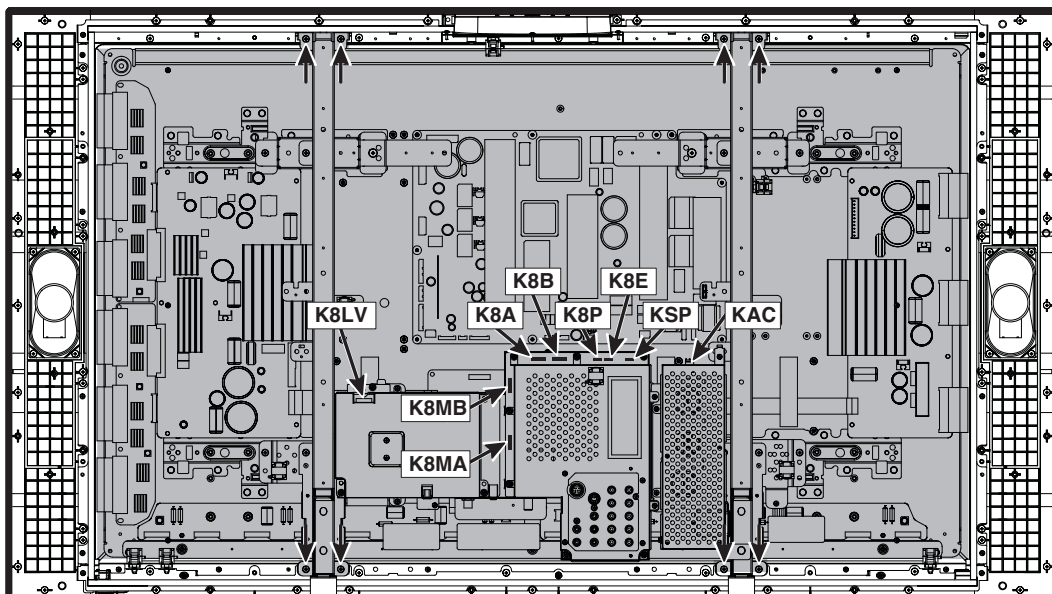
Position TV face down on a padded or cushioned surface to protect the screen and finish.  
Remove 2 screws (6X18) from each foot and remove.



## FILTER GLASS REMOVAL

1. Remove the key switch board.
2. Disconnect the following socket connections.  
Control Board ~ Main Board: K8E  
Speakers ~ Main Board: KSP
3. Remove 8 screws (4X8) to take the panel module, power unit, and panel holders (Mounting Brackets) with boards off.

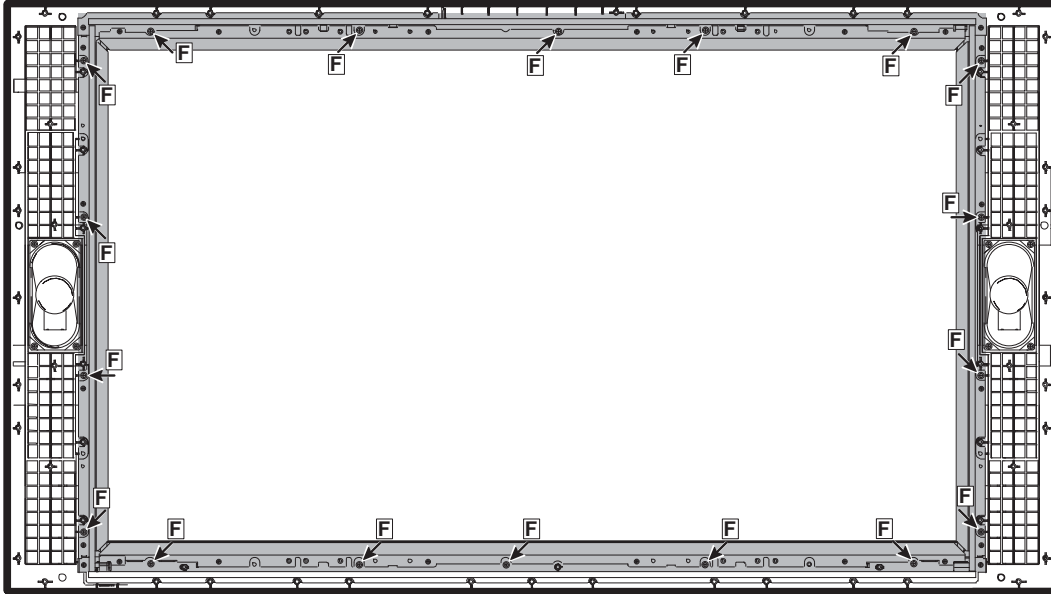
## PLUG LOCATIONS



# MECHANICAL DISASSEMBLY (CONT.)

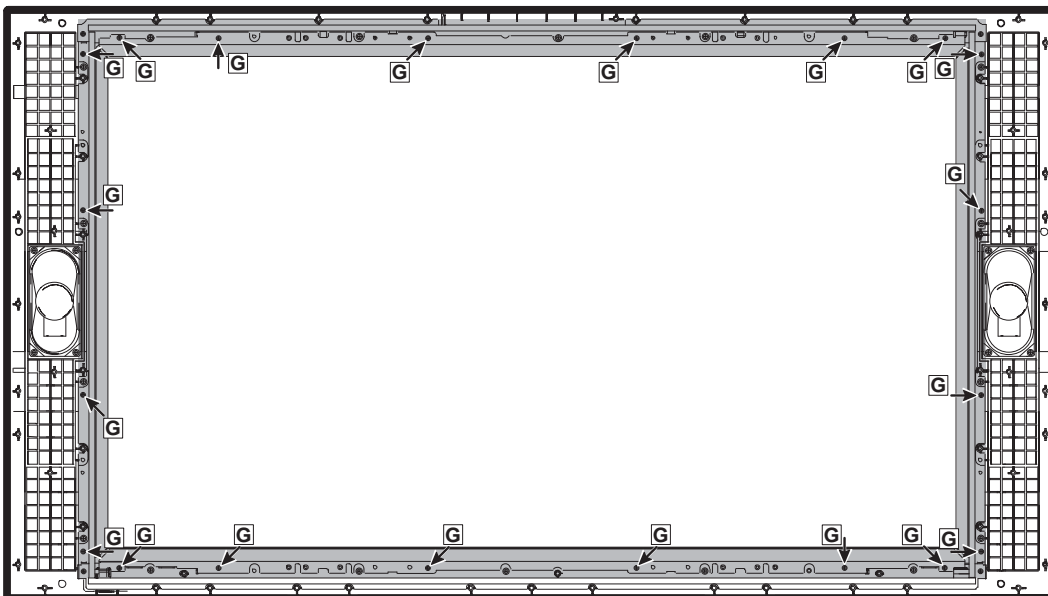
## FILTER GLASS REMOVAL (Cont.)

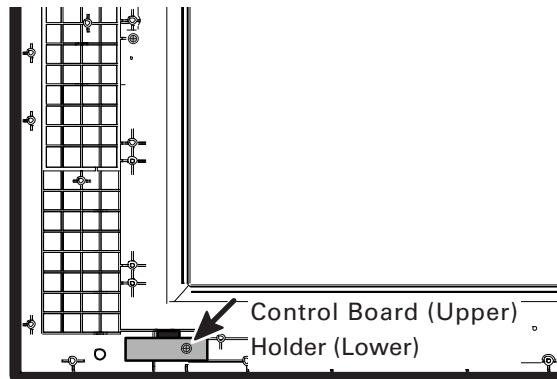
4. Remove 20 screws (G:3X8) to take the filter glass and upper plates off.



## FRONT CABINET REMOVAL

1. Remove 18 screws (F:4X12) to take the filter glass with upper and lower plates (assembly parts) off.
2. Remove the speakers.
3. Remove a screw (4X10) to take the control board and holder off.

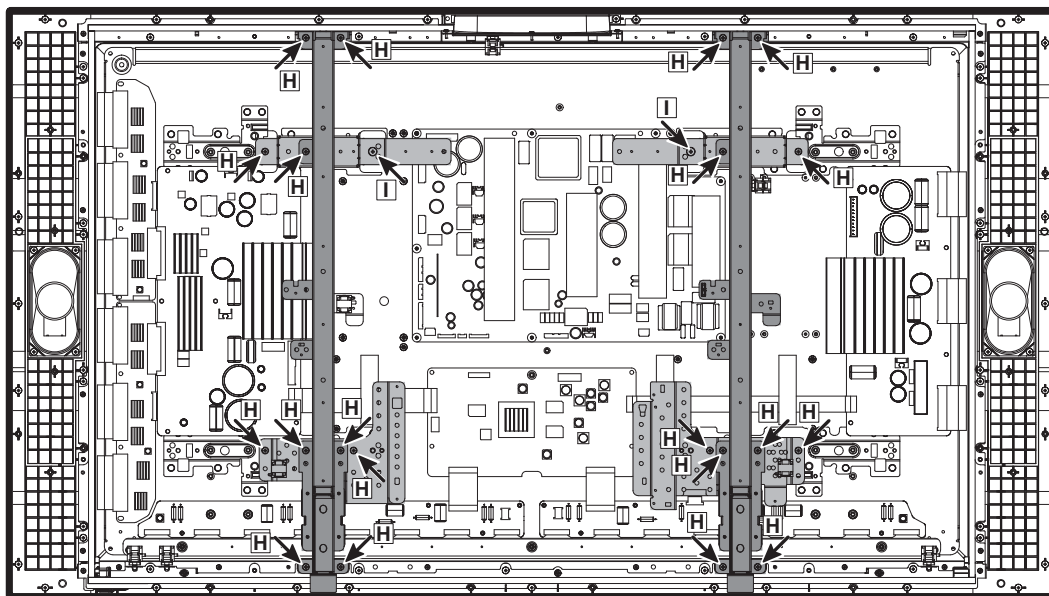




### PANEL MODULE REMOVAL

1. Remove the key switch board.
2. Disconnect the following socket connections.
 

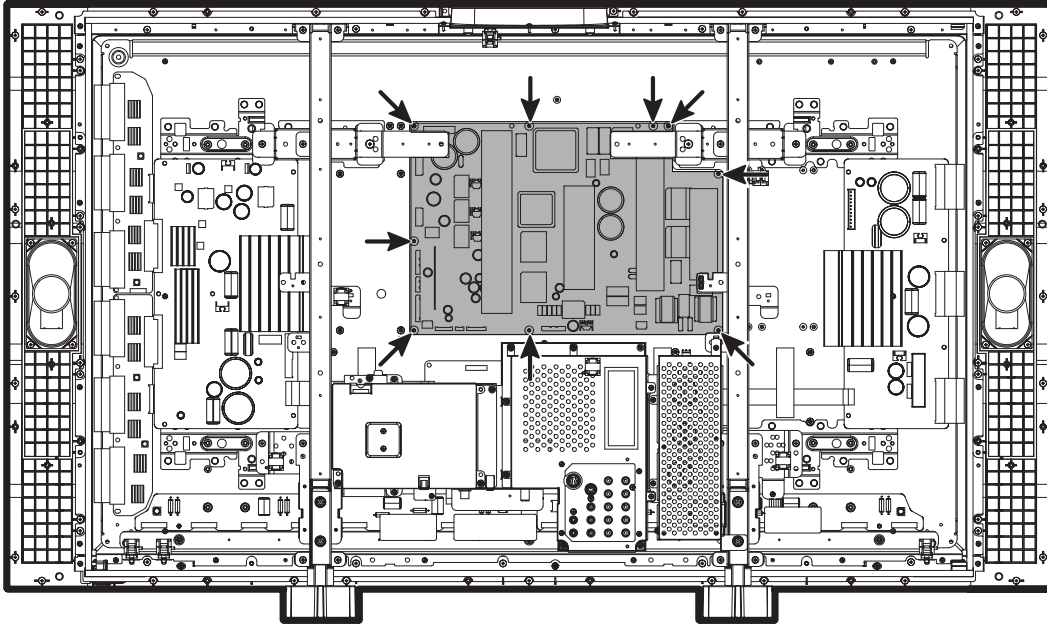
Main Board ~ Power Unit:	CN8004, CN8007
D-TU Board ~ Power Unit:	CN8010
Filter Board ~ Power Unit:	CN8001
Control Board ~ Main Board:	K8E
Speakers ~ Main Board:	KSP
PDP Module ~ D TU Board	K8LV
3. Remove the main board, D-TU board, and filter board.
4. Remove the 16 screws from the panel holders (Mounting Brackets) to take the panel module off.  
(H:4X8, 14pcs; I:5X10, 2pcs)



# MECHANICAL DISASSEMBLY (CONT.)

## POWER UNIT REMOVAL

Remove 9 screws to take the power unit off.



### ATTENTION

- This PDP TV uses several different kinds of screws. Using the **correct screw** is required to prevent damage.
- The **gasket** is provided to prevent interference to other radio and television receivers. The gasket must be returned to its previous position after servicing.
- Lead wires must be redressed to previous positions after servicing.

# CHASSIS ELECTRICAL PARTS LIST

**CAUTION:** To Protect against electrical shock and for continued product safety, refer to **SAFETY PRECAUTIONS**, and **PRODUCT SAFETY NOTICE** on Page 2.

## PRODUCT SAFETY NOTICE

**PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A STAR (★) IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A STAR. NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A STAR.**

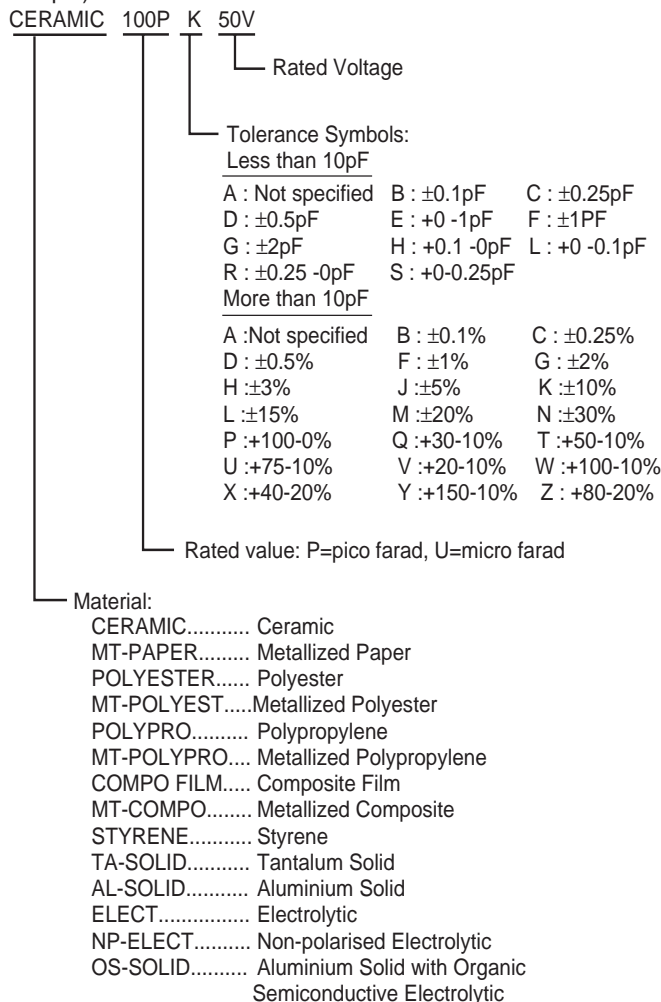
Note: Schematic part location numbers may not always match with the part descriptions.  
The part descriptions are correct and should be used.

## CAPACITORS

### NOTES:

Read description of the Capacitor as follows:

(Example)

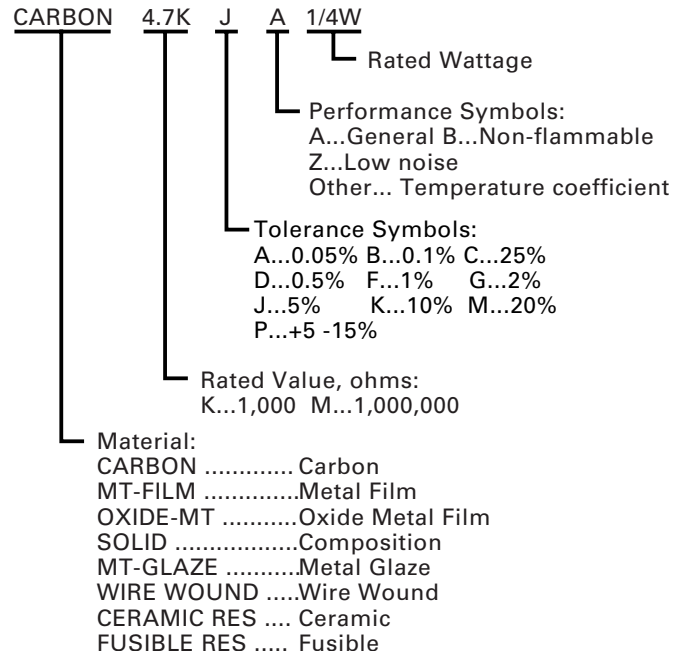


## RESISTORS

### NOTES:

Read description of the Resistor as follows:

(Example)



Schematic Location	Part No.	Description
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## MAIN PC BOARD

### CAPACITORS

C002	CE1C470M4ZANN	ELECT	47U M	16V
C004	CK1H472KLZBNG	CERAMIC	4700P K	50V
C005	CE1E4R7M4ZANN	ELECT	4.7U M	25V
C007	CK1H472KLZBNG	CERAMIC	4700P K	50V
C008	CE1E4R7M4ZANN	ELECT	4.7U M	25V
C009	CE1E4R7M4ZANN	ELECT	4.7U M	25V
C012	CE1C102M4ZANN	ELECT	1000U M	16V
C013	CE1C102M4ZANN	ELECT	1000U M	16V
C015	CEXLB1C101WAN	ELECT	100U M	16V
C016	CK1H103ZLZFNG	CERAMIC	0.01U Z	50V
C017	CH1H103JAGANN	MT-COMPO	0.01U J	50V
C018	CH1H103JAGANN	MT-COMPO	0.01U J	50V
C019	CH1H103JAGANN	MT-COMPO	0.01U J	50V
C020	CH1H103JAGANN	MT-COMPO	0.01U J	50V
C101	CK1H103ZLZFNG	CERAMIC	0.01U Z	50V
C102	CK1H103ZLZFNG	CERAMIC	0.01U Z	50V
C105	CK1H103ZLZFNG	CERAMIC	0.01U Z	50V
C106	CEXLB1H470WAN	ELECT	47U M	50V
C107	CEXLB0J102WAN	ELECT	1000U M	6.3V
C805	CC1H220JLZCNG	CERAMIC	22P J	50V
C806	CC1H220JLZCNG	CERAMIC	22P J	50V
C807	CK1H103ZLZFNG	CERAMIC	0.01U Z	50V
C810	RGF5602JTCANL	MT-GLAZE	56K JA 1/10W	
C811	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C813	CEXLB1A470WAN	ELECT	47U M	10V
C814	CK1H222KLZBNG	CERAMIC	2200P K	50V
C815	CC1H220JLZCNG	CERAMIC	22P J	50V
C816	CC1H220JLZCNG	CERAMIC	22P J	50V
C820	CK1H103ZLZFNG	CERAMIC	0.01U Z	50V
C824	CK1H103ZLZFNG	CERAMIC	0.01U Z	50V
C825	CC1H330JLZCNG	CERAMIC	33P J	50V
C826	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C827	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C829	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C834	CEXLB1C220WAN	ELECT	22U M	16V
C835	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C836	CC1H120JLZCNG	CERAMIC	12P J	50V
C837	CC1H120JLZCNG	CERAMIC	12P J	50V
C838	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C839	CK1H103ZLZFNG	CERAMIC	0.01U Z	50V
C840	CK1H333KLZBNG	CERAMIC	0.033U K	50V
C841	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C843	CC1H221JLZCNG	CERAMIC	220P J	50V
C1001	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1002	CEXLB1C100WAN	ELECT	10U M	16V
C1003	CEXLB1C100WAN	ELECT	10U M	16V
C1004	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C1005	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C1021	CEXLB1C101WAN	ELECT	100U M	16V
C1022	CEXLB1C100WAN	ELECT	10U M	16V
C1023	CEXLB1C100WAN	ELECT	10U M	16V
C1024	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1025	CEXLB1C100WAN	ELECT	10U M	16V
C1026	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C1027	CEXLB1H2R2WAN	ELECT	2.2U M	50V

Schematic Location	Part No.	Description
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C1061	CEXLB1C101WAN	ELECT	100U M	16V
C1062	CEXLB1C100WAN	ELECT	10U M	16V
C1063	CEXLB1C100WAN	ELECT	10U M	16V
C1064	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1065	CEXLB1C100WAN	ELECT	10U M	16V
C1066	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C1067	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C1101	CEXLB1E4R7WAN	ELECT	4.7U M	25V
C1102	CEXLB1E4R7WAN	ELECT	4.7U M	25V
C1201	CEXLB1C101WAN	ELECT	100U M	16V
C1202	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1203	CEXLB1C100WAN	ELECT	10U M	16V
C1251	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1601	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1602	CEXLB0J221WAN	ELECT	220U M	6.3V
C1603	CEXLB1C221WAN	ELECT	220U M	16V
C1604	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1605	CEXLB1C221WAN	ELECT	220U M	16V
C1606	CEXLB1H470WAN	ELECT	47U M	50V
C1607	CEXLB1C221WAN	ELECT	220U M	16V
C1608	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1612	CEXLB0J221WAN	ELECT	220U M	6.3V
C1613	CEXLB0J221WAN	ELECT	220U M	6.3V
C1614	CEXLB0J221WAN	ELECT	220U M	6.3V
C1616	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1617	CEXLB0J221WAN	ELECT	220U M	6.3V
C1618	CEXLB0J221WAN	ELECT	220U M	6.3V
C1619	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1620	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1621	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1623	CK1H103ZLZFNG	CERAMIC	0.01U Z	50V
C1624	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1625	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1801	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1851	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1852	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1853	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1854	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1855	CK1H103ZLZFNG	CERAMIC	0.01U Z	50V
C3401	CPXLB1H4R7ZAN	NP-ELECT	4.7U M	50V
C3402	CEXLB1HR10WAN	ELECT	0.1U M	50V
C3403	CPXLB1H4R7ZAN	NP-ELECT	4.7U M	50V
C3404	CK1H562KLZBNG	CERAMIC	5600P K	50V
C3405	CK1H123KLZBNG	CERAMIC	0.012U K	50V
C3406	CEXLB1H1ROWAN	ELECT	1U M	50V
C3407	CEXLB1HR47WAN	ELECT	0.47U M	50V
C3408	CEXLB1C470WAN	ELECT	47U M	16V
C3409	CEXLB1E4R7WAN	ELECT	4.7U M	25V
C3410	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C3411	CPXLB1H4R7ZAN	NP-ELECT	4.7U M	50V
C3412	CEXLB1E4R7WAN	ELECT	4.7U M	25V
C3413	CEXLB1C471WAN	ELECT	470U M	16V
C3414	CPXLB1H4R7ZAN	NP-ELECT	4.7U M	50V
C3415	CK1H272KLZBNG	CERAMIC	2700P K	50V
C3416	CK1H473KLZBNG	CERAMIC	0.047U K	50V
C3417	CT1A3R3KDRANG	TA-SOLID	3.3U K	10V
C3418	CPXLB1H4R7ZAN	NP-ELECT	4.7U M	50V
C3419	CT1A100KDRANG	TA-SOLID	10U K	10V

Schematic Location	Part No.	Description
C3420	CEXLB1H1ROWAN	ELECT 1U M 50V
C3421	CEXLB1H1ROWAN	ELECT 1U M 50V
C3422	CEXLB1H1ROWAN	ELECT 1U M 50V
C3423	CEXLB1H1ROWAN	ELECT 1U M 50V
C3424	CEXLB1H1ROWAN	ELECT 1U M 50V
C3425	CK1H223KLZBNG	CERAMIC 0.022U K 50V
C3426	CK1H472KLZBNG	CERAMIC 4700P K 50V
C3427	CPXLB1H4R7ZAN	NP-ELECT 4.7U M 50V
C3428	CEXLB1HR10WAN	ELECT 0.1U M 50V
C3429	CK1H472KLZBNG	CERAMIC 4700P K 50V
C3430	CEXLB1C471WAN	ELECT 470U M 16V

#### DIODES

D001	DDRB551V-30-G	DIODE RB551V-30 TE-17
D801	DD1SS355----G	DIODE 1SS355 TE-17
D802	DZUDZS6.2B--G	ZENER DIODE UDZS6.2B TE-17
D803	DD1SS355----G	DIODE 1SS355 TE-17
D1601	DD1SS355----G	DIODE 1SS355 TE-17
D1602	DD1SS355----G	DIODE 1SS355 TE-17
D1603	DD1SS355----G	DIODE 1SS355 TE-17
D1604	DD1SS355----G	DIODE 1SS355 TE-17
D1605	DD1SS355----G	DIODE 1SS355 TE-17
D1606	DD1SS355----G	DIODE 1SS355 TE-17
D1607	DZUDZS3.0B--G	ZD UDZS3.0B-TE-17
D1801	DZUDZS10B---G	ZENER DIODE UDZS10B TE-17
D3401	DDRB551V-30-G	DIODE RB551V-30 TE-17

#### INTEGRATED CIRCUITS

IC001	QLA42072N-E-N	IC LA42072N-E
IC801	QXXAAJQ0730--	IC LC87F4164AU-PDP001
	QXXAVC779---M	IC LC874164A-57XX-E
IC802	Q24LC08BT/SNP	IC 24LC08BT/SN
IC803	QMN1381-Q---N	IC MN1381-Q
IC805	QTC7SH08FU--P	IC TC7SH08FU
IC806	QTC7SET08F--P	IC TC7SET08F-TE85L
IC1201	QCD4052BNSR-P	IC CD4052BNSR
	QTC4052BF---P	IC TC4052BF-EL
IC1251	QCD4052BNSR-P	IC CD4052BNSR
	QTC4052BF---P	IC TC4052BF-EL
IC1601	QBA90BC0WFP-P	IC BA90BC0WFP-E2
IC1604	QXXAVC550---G	IC PQ018EZ02ZPH
IC3401	QCXA2234Q---P	IC CXA2234Q-T6

#### COILS

L001	1AV4L26B2770G	INDUCTOR, 220 OHM
L002	1AV4L26B2770G	INDUCTOR, 220 OHM
L004	1AV4L26B2770G	INDUCTOR, 220 OHM
L005	1AV4L26B2770G	INDUCTOR, 220 OHM
L101	1AV4L2FB3R3MG	INDUCTOR, 3.3U M
L102	1AV4L2FB3R3MG	INDUCTOR, 3.3U M
L103	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
L106	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
L107	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
L801	1AV4L2FB3R3MG	INDUCTOR, 3.3U M
L802	1AV4L26B2770G	INDUCTOR, 220 OHM

Schematic Location	Part No.	Description
L805	1AV4L26B0130G	INDUCTOR, 600 OHM
L806	1AV4L26B0130G	INDUCTOR, 600 OHM
L1021	1AV4L2FB3R3MG	INDUCTOR, 3.3U M
L1201	1AV4L2FB3R3MG	INDUCTOR, 3.3U M
L1601	1AV4L26B2770G	INDUCTOR, 220 OHM
L1602	1AV4L26B2770G	INDUCTOR, 220 OHM
L1605	1AV4L26B0130G	INDUCTOR, 600 OHM
L1609	1AV4L26B2770G	INDUCTOR, 220 OHM
L1610	1AV4L26B2770G	INDUCTOR, 220 OHM
L1611	1AV4L26B2770G	INDUCTOR, 220 OHM
L1612	1AV4L26B2770G	INDUCTOR, 220 OHM
L1615	1AV4L26B2770G	INDUCTOR, 220 OHM
L1616	1AV4L26B2770G	INDUCTOR, 220 OHM
L1617	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1618	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1619	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1620	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1801	1AV4L26B0130G	INDUCTOR, 600 OHM
L1803	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1804	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1805	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1806	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1807	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1808	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1809	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1810	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1815	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1885	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1891	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1893	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1894	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1895	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1896	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L3401	1AV4L2FB3R3MG	INDUCTOR, 3.3U M

#### TRANSISTORS

Q101	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q102	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q801	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB



Schematic Location	Part No.	Description
Q803	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
Q804	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	T2SA1037AK-RP	TR 2SA1037AK T146 R
	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
Q805	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
Q901	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
Q902	T2SC3928A1S-P	TR 2SC3928A1S
	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
Q1021	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	T2SA1037AK-RP	TR 2SA1037AK T146 R
	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6
Q1022	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
	T2SA1037AK-RP	TR 2SA1037AK T146 R
	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R

Schematic Location	Part No.	Description
Q1023	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
Q1061	T2SA1037AK-RP	TR 2SA1037AK T146 R
	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
Q1062	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
	T2SA1037AK-RP	TR 2SA1037AK T146 R
	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
Q1063	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
	T2SA1037AK-RP	TR 2SA1037AK T146 R
Q1101	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S

Schematic Location	Part No.	Description
Q1102	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q1201	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q1202	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q1203	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q1251	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q1252	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q1801	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S

Schematic Location	Part No.	Description
Q3404	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q3405	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S

### RESISTORS

★ R001	RG11R00JTEANL	MT-GLAZE	1 JA	1W
★ R002	RG11R00JTEANL	MT-GLAZE	1 JA	1W
R003	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R004	RGF6801JTCANL	MT-GLAZE	6.8K JA	1/10W
R005	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R006	RGF6801JTCANL	MT-GLAZE	6.8K JA	1/10W
★ R007	RG11R00JTEANL	MT-GLAZE	1 JA	1W
R012	RGA2R20JTDANL	MT-GLAZE	2.2 JA	1/2W
R013	RGA2R20JTDANL	MT-GLAZE	2.2 JA	1/2W
R014	RGA2R20JTDANL	MT-GLAZE	2.2 JA	1/2W
R015	RGA2R20JTDANL	MT-GLAZE	2.2 JA	1/2W
R016	RGF5601JTCANL	MT-GLAZE	5.6K JA	1/10W
R101	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R102	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R103	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R104	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R105	RGF56R0JTCANL	MT-GLAZE	56 JA	1/10W
R109	RGF4700JTCANL	MT-GLAZE	470 JA	1/10W
R110	RGFR000ZTCANL	MT-GLAZE	0.000 ZA	1/10W
R111	RGF33R0JTCANL	MT-GLAZE	33 JA	1/10W
R112	RGFR000ZTCANL	MT-GLAZE	0.000 ZA	1/10W
R801	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R803	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R806	RGF2202JTCANL	MT-GLAZE	22K JA	1/10W
R807	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R809	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R812	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R815	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R816	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R818	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R822	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R823	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R824	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R825	RGF2201JTCANL	MT-GLAZE	2.2K JA	1/10W
R828	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R829	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R830	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R831	RGF4702JTCANL	MT-GLAZE	47K JA	1/10W
R832	RGF4702JTCANL	MT-GLAZE	47K JA	1/10W

Schematic Location	Part No.	Description
R833	RGF2701JTCANL	MT-GLAZE 2.7K JA 1/10W
R834	RGF2701JTCANL	MT-GLAZE 2.7K JA 1/10W
R838	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R839	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R840	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R841	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R842	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R843	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R844	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R846	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R847	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R848	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R849	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R850	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R851	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R853	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R854	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R855	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R856	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R858	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R859	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R860	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R861	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R863	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R864	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R865	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R866	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R867	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R868	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R870	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R873	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R874	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R875	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R876	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R883	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R884	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R885	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R887	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R888	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R889	RGF1004JTCANL	MT-GLAZE 1M JA 1/10W
R893	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R894	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R895	RGF4703JTCANL	MT-GLAZE 470K JA 1/10W
R896	RGF3901JTCANL	MT-GLAZE 3.9K JA 1/10W
R897	CK1H103ZLZFN	CERAMIC 0.01U Z 50V
R899	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R900	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R901	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R902	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R903	RGF3302JTCANL	MT-GLAZE 33K JA 1/10W
R904	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R905	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R906	RGF56R0JTCANL	MT-GLAZE 56 JA 1/10W
R907	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R908	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R909	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1001	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1002	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W

Schematic Location	Part No.	Description
R1003	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1004	RGF4703JTCANL	MT-GLAZE 470K JA 1/10W
R1005	RGF4703JTCANL	MT-GLAZE 470K JA 1/10W
R1006	RGF2200JTCANL	MT-GLAZE 220 JA 1/10W
R1007	RGF2200JTCANL	MT-GLAZE 220 JA 1/10W
R1008	RGF2200JTCANL	MT-GLAZE 220 JA 1/10W
R1009	RGF2200JTCANL	MT-GLAZE 220 JA 1/10W
R1010	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1011	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1021	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1022	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1023	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1024	RGF4703JTCANL	MT-GLAZE 470K JA 1/10W
R1025	RGF4703JTCANL	MT-GLAZE 470K JA 1/10W
R1027	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1028	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1029	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1030	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1031	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1032	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1033	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1034	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1035	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1036	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1037	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1038	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1039	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1040	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1041	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1042	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1043	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1061	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1062	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1063	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1064	RGF4703JTCANL	MT-GLAZE 470K JA 1/10W
R1065	RGF4703JTCANL	MT-GLAZE 470K JA 1/10W
R1067	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1068	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1069	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1070	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1071	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1072	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1073	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1074	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1075	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1076	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1077	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1078	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1079	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1080	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1081	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1082	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1083	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1101	RGF8200JTCANL	MT-GLAZE 820 JA 1/10W
R1102	RGF8200JTCANL	MT-GLAZE 820 JA 1/10W
R1103	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R1104	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R1105	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W

Schematic Location	Part No.	Description
R1106	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1201	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1202	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1203	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1204	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1205	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1206	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1207	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1208	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1209	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1210	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1253	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1254	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1255	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1256	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1257	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1260	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1261	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1262	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1263	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1264	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1265	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1266	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1267	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1268	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1269	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1270	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1271	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1272	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1605	RGF3302JTCANL	MT-GLAZE 33K JA 1/10W
R1606	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
★ R1609	RG11R20JTEANL	MT-GLAZE 1.2 JA 1W
R1610	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
★ R1626	RG12R20JTEANL	MT-GLAZE 2.2 JA 1W
R1802	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1803	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1804	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1805	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1806	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1807	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1809	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1812	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1813	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1814	RGF8200JTCANL	MT-GLAZE 820 JA 1/10W
R1815	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1816	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1817	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1819	RGE1000JTBANL	MT-GLAZE 100 JA 1/8W
R3401	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R3402	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R3403	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R3404	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R3405	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R3406	RGF1004JTCANL	MT-GLAZE 1M JA 1/10W
R3407	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R3416	RGF1501JTCANL	MT-GLAZE 1.5K JA 1/10W
R3417	RGF1801JTCANL	MT-GLAZE 1.8K JA 1/10W
R3418	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W

Schematic Location	Part No.	Description
R3419	RGF6802FTCANL	MT-GLAZE 68K FA 1/10W
R3420	RGF3301JTCANL	MT-GLAZE 3.3K JA 1/10W
R3421	RGF3001JTCANL	MT-GLAZE 3K JA 1/10W
R3422	RGF3901JTCANL	MT-GLAZE 3.9K JA 1/10W
R3425	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R3426	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R3427	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R3428	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R3431	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R3432	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R3439	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R3440	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W

#### SURGE-ABSORBER

SC1001	1AV4Z30B0220G	SURGE-ABSORBER
SC1002	1AV4Z30B0220G	SURGE-ABSORBER
SC1003	1AV4Z30B0220G	SURGE-ABSORBER
SC1004	1AV4Z30B0220G	SURGE-ABSORBER
SC1005	1AV4Z30B0220G	SURGE-ABSORBER
SC1006	1AV4Z30B0220G	SURGE-ABSORBER
SC1021	1AV4Z30B0220G	SURGE-ABSORBER
SC1022	1AV4Z30B0220G	SURGE-ABSORBER
SC1023	1AV4Z30B0220G	SURGE-ABSORBER
SC1024	1AV4Z30B0220G	SURGE-ABSORBER
SC1025	1AV4Z30B0220G	SURGE-ABSORBER
SC1061	1AV4Z30B0220G	SURGE-ABSORBER
SC1062	1AV4Z30B0220G	SURGE-ABSORBER
SC1063	1AV4Z30B0220G	SURGE-ABSORBER
SC1064	1AV4Z30B0220G	SURGE-ABSORBER
SC1065	1AV4Z30B0220G	SURGE-ABSORBER
SC1101	1AV4Z30B0220G	SURGE-ABSORBER
SC1102	1AV4Z30B0220G	SURGE-ABSORBER
SC1801	1AV4Z30B0220G	SURGE-ABSORBER
SC1802	1AV4Z30B0220G	SURGE-ABSORBER
SC1803	1AV4Z30B0220G	SURGE-ABSORBER
SC1804	1AV4Z30B0220G	SURGE-ABSORBER
SC1805	1AV4Z30B0220G	SURGE-ABSORBER
SC1806	1AV4Z30B0220G	SURGE-ABSORBER
SC1807	1AV4Z30B0220G	SURGE-ABSORBER

#### CRYSTAL / OSCILLATORS

X801	1AV4V10B0560N	OSC, CRYSTAL 32.768KHZ
	1AV4V10B0570N	OSC, CRYSTAL 32.768KHZ

#### MISCELLANEOUS

★ A101	1AV4F1FAM0170	TUNER, TU/IF
A801	1AA0B10N2020A	ASSY, PWB, MAIN J3TZ
K1001	1AV4J31B07700	TERMINAL, BOARD
K1021	1AV4J12B3960N	JACK, RCA-5(6-1)
K1061	1AV4J12B3960N	JACK, RCA-5(6-1)
K1101	1AV4J12B3970N	JACK, RCA-2
	1LB4J12B08100	JACK, RCA-2



Schematic Location	Part No.	Description
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## FILTER PC BOARD

### CAPACITORS

★ C602	CGXAV27224CAN	MT-POLYEST	0.22U M	275V
★ C606	CKXAV2E102AAC	CERAMIC	1000P M	250V
★ C607	CKXAV2E102AAC	CERAMIC	1000P M	250V

### COILS

★ LF601	1AV4F35B1390N	LINE FILTER
★ LF602	1AV4F35B1390N	LINE FILTER

### MISCELLANEOUS

★ SC601	1AV4Z30B0170N	SURGE-ABSORBER
★ VA601	DVXAAEV0043--	VARISTOR ENC471D-14AS
★ VA602	DVXAAEV0047--	VARISTOR ENC271D-10AS
A600	1AA0B10N20300	ASSY, PWB, FILTER-J3TZ
★ F601	F32S10RA2LTTL	FUSE 250V 10A
F601A	1AV4J20B0040N	HOLDER, FUSE
F601B	1AV4J20B0040N	HOLDER, FUSE
K601	1AV4U20B61300	UNIT, NOISE FILTER

## CONTROL PC BOARD

### CAPACITORS

C1902	CK1H102KLZBNG	CERAMIC	1000P K	50V
C1903	CK0J106KGMBNG	CERAMIC	10U K	6.3V
C1904	CK0J106KGMBNG	CERAMIC	10U K	6.3V

### DIODES

D1903	DLSLP-381C51N	LED SLP-381C-51
D1903A	1AV2SA9SD01K-	SPACER

### RESISTORS

R1900	RGFR000ZTCANL	MT-GLAZE	0.000 ZA	1/10W
R1916	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R1917	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W

### SURGE-ABSORBERS

SC1901	1AV4Z30B0220G	SURGE-ABSORBER
SC1902	1AV4Z30B0220G	SURGE-ABSORBER

### MISCELLANEOUS

A1901	1AA0B10N2020B	ASSY, PWB, CONTROL J3TZ
A1902	1AV4U20B24401	UNIT, REMOCON RECEIVER

Schematic Location	Part No.	Description
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## KEY SWITCH PC BOARD

### CAPACITORS

C1951	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
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### DIODES

D1957	DZUDZS10B---G	ZENER DIODE UDZS10B TE-17
D1958	DZUDZS10B---G	ZENER DIODE UDZS10B TE-17

### COILS

L1955	1AV4L26B0130G	INDUCTOR, 600 OHM
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### RESISTORS

R1953	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R1954	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R1956	RGF1001JTCANL	MT-GLAZE	1K JA	1/10W
R1957	RGF1001JTCANL	MT-GLAZE	1K JA	1/10W
R1958	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R1959	RGF1801JTCANL	MT-GLAZE	1.8K JA	1/10W
R1961	RGF2201JTCANL	MT-GLAZE	2.2K JA	1/10W
R1962	RGF3901JTCANL	MT-GLAZE	3.9K JA	1/10W
R1963	RGF5601JTCANL	MT-GLAZE	5.6K JA	1/10W

### SWITCHES

SW1951	1AV4S10B3530G	SWITCH, PUSH 1P-1TX1
SW1952	1AV4S10B3530G	SWITCH, PUSH 1P-1TX1
SW1953	1AV4S10B3530G	SWITCH, PUSH 1P-1TX1
SW1954	1AV4S10B3530G	SWITCH, PUSH 1P-1TX1
SW1955	1AV4S10B3530G	SWITCH, PUSH 1P-1TX1

### MISCELLANEOUS

A1951	1AA0B10N2020C	ASSY, PWB, KEY_SW J3TZ
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## DIGITAL PC BOARD

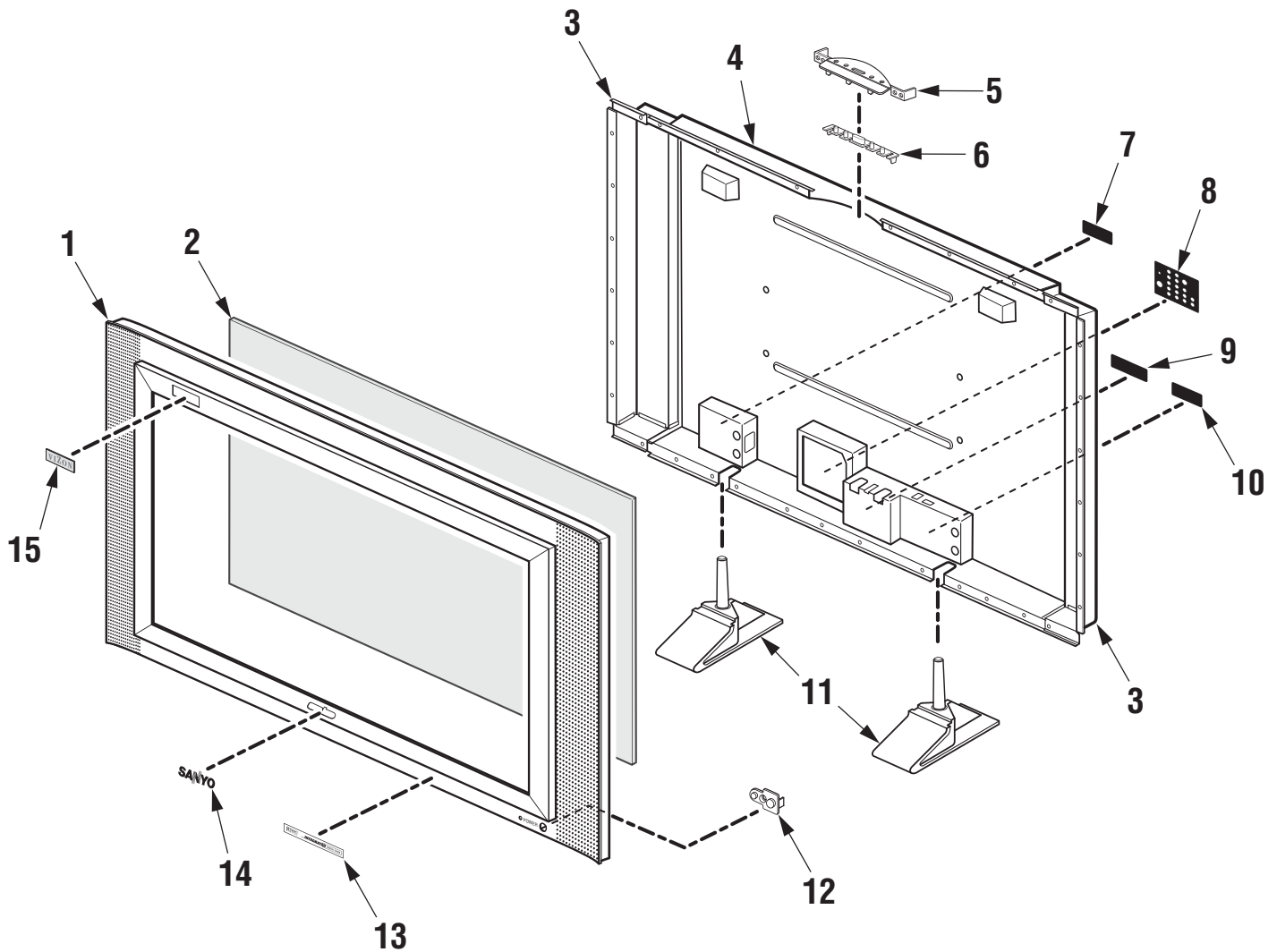
A5500	1AA0B10N20400	ASSY, PWB, DIGITAL-J3TZ
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Nonservicable part. No discreet parts provided for this pc board.

## MISCELLANEOUS

★ EL901	1AV4T44B01700	PDP MODULE / POWER SUPPLY
★ U901	1AV4U20C02100	UNIT, PDP-LOGIC
SP901	1LB4A10B05700	SPEAKER 8
SP902	1LB4A10B05700	SPEAKER 8

# CABINET PARTS LIST



## CABINET PARTS LIST

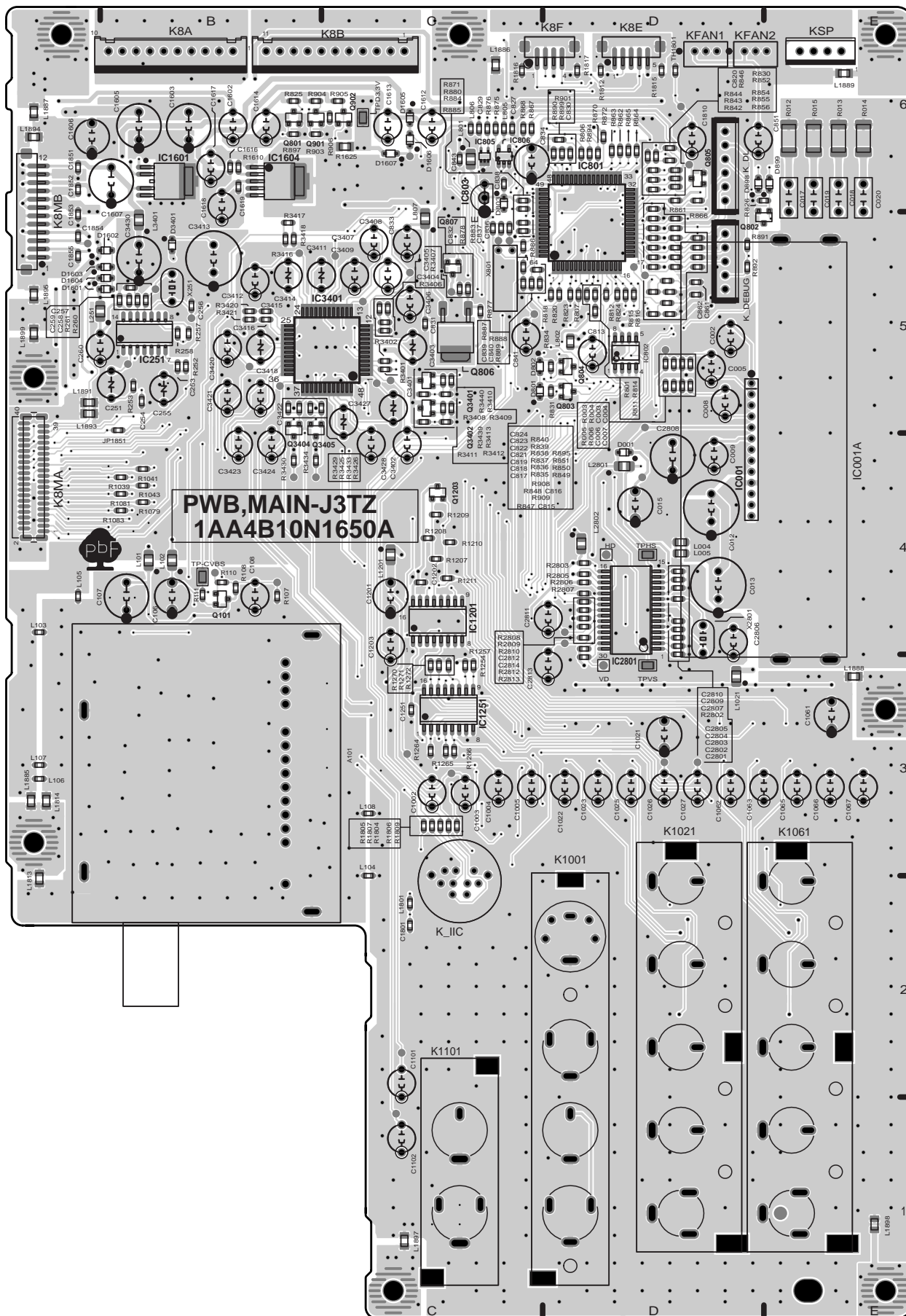
KEY NO.	PARTS NO.	DESCRIPTION
1	1AA2CAM0493-F	CABINET FRONT
★2	1AV4Z12B38600	EL902 OPTICAL FILTER
3	1AA2CBF0019--	CABINET BACK SIDE (2)
4	1AA0CBF0005-A	ASSY, CABINET BACK CENTER
5	1AA2PAM0146A-	PANEL
6	1AA2BUM0431--	UNITED BUTTON
7	1AA2DES0784-H	DEC SHEET, AC
8	1AA2DES0874--	DEC SHEET, AV
9	1AA2DES0784-G	DEC SHEET, TUNER
10	1AA2DES0789-G	DEC SHEET DTV
11	1AA2SDA0008-F	STAND (2)
12	1AA2DEM0371--	DEC RC LED
13	1AA2DES0861	DEC SHEET, DTV
14	1AV2BAAS015A-	BADGE, SANYO
15	1AA2DES0712-F	DEC SHEET, VIZON

## ACCESSORY PARTS LIST

KEY NO.	PARTS NO.	DESCRIPTION
	1AA6P1P5111--	OWNERS MANUAL (ENG/SPA)
	1JC6P1P0218--	OWNERS MANUAL (FRENCH)
	1JC6P1P0230--	QUICK 'N EASY SETUP SHEET
	1AV0U10B43101	ASSY, REMOCON
	1AA2RCM0295-A	RC-BATTERY LID
★	1AV4W11B17100	CORD, POWER-3.0MK

# COMPONENT AND TESTPOINT LOCATIONS

## MAIN BOARD PARTS SIDE

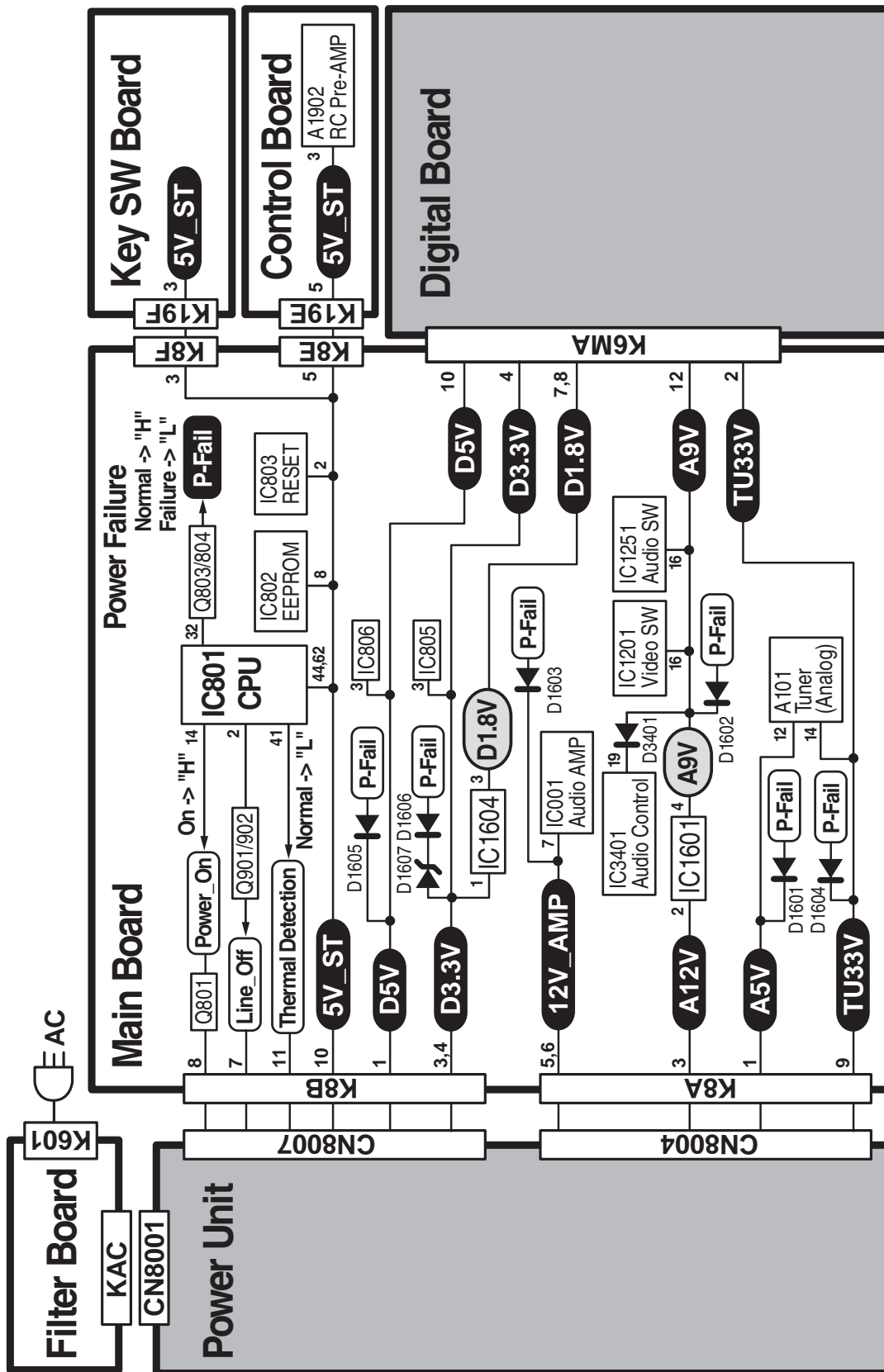




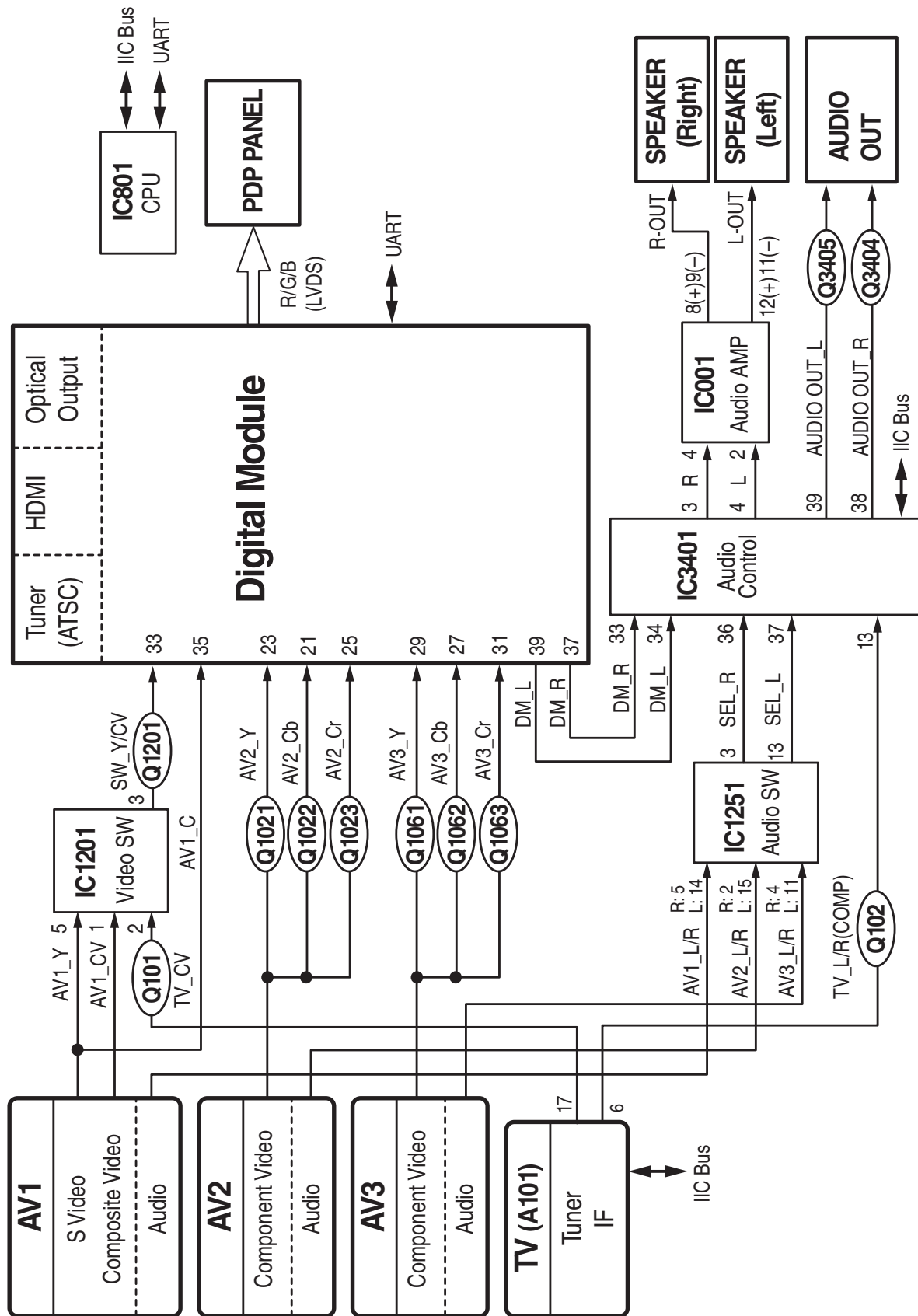




# BLOCK DIAGRAM POWER LINES

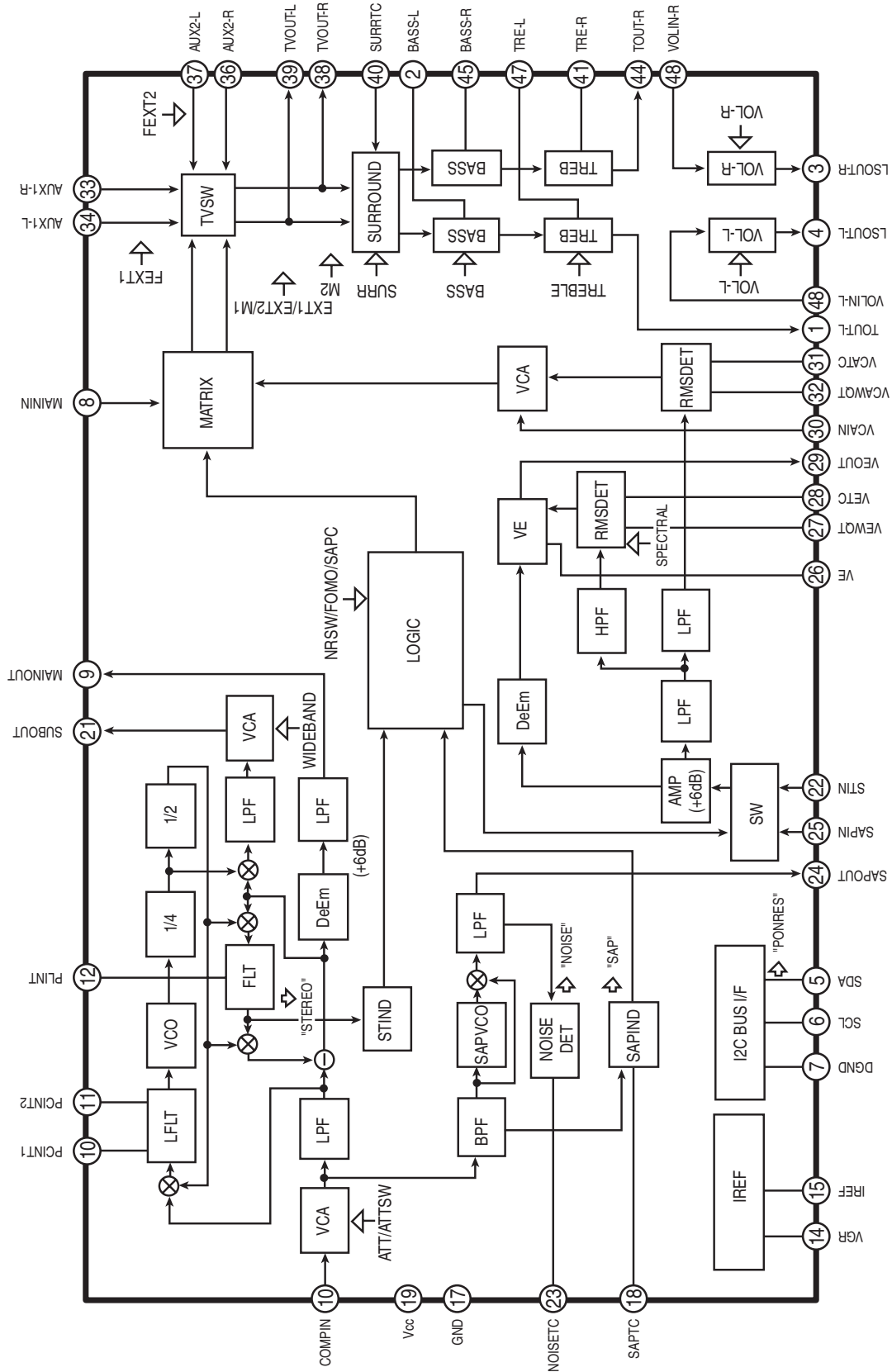


# BLOCK DIAGRAM SIGNAL LINES



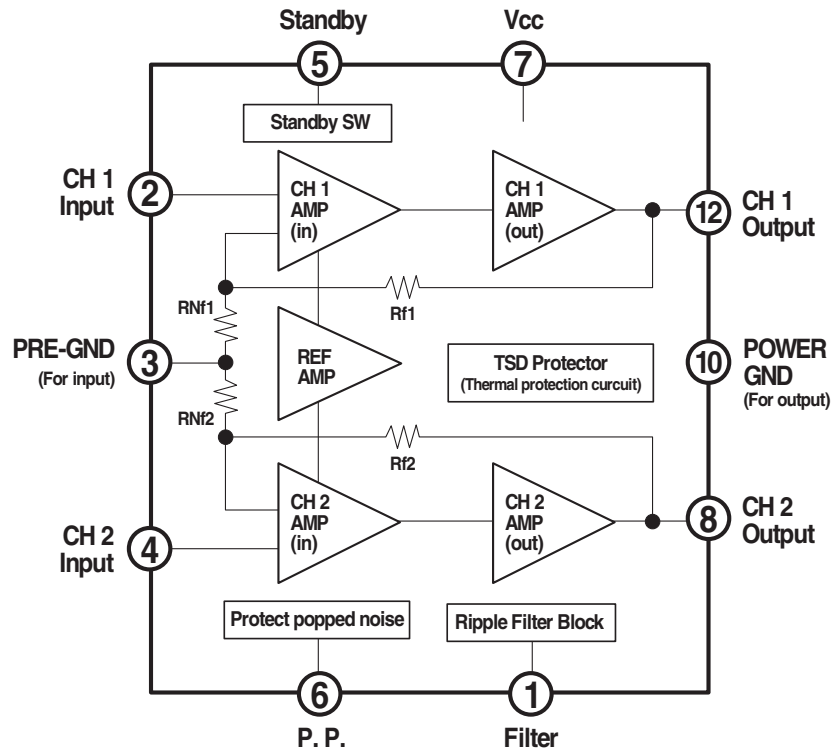
# IC BLOCK DIAGRAMS

## Audio Processor (IC3401)

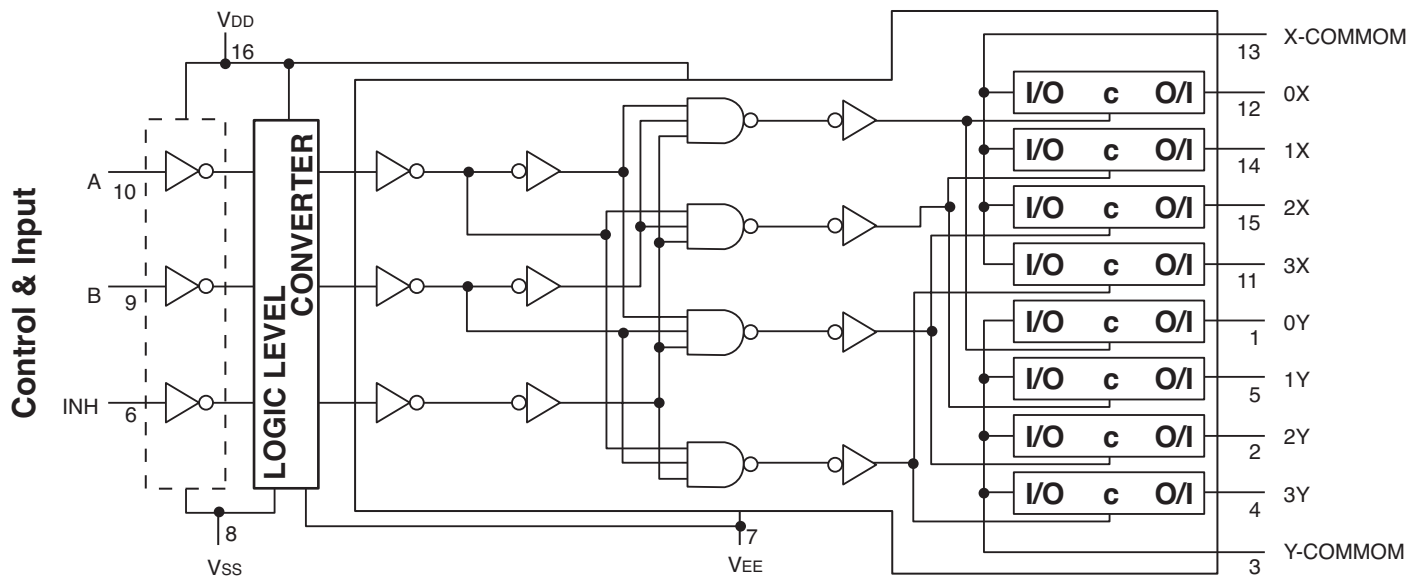


## IC BLOCK DIAGRAMS (Cont.)

### Audio AMP (IC001)

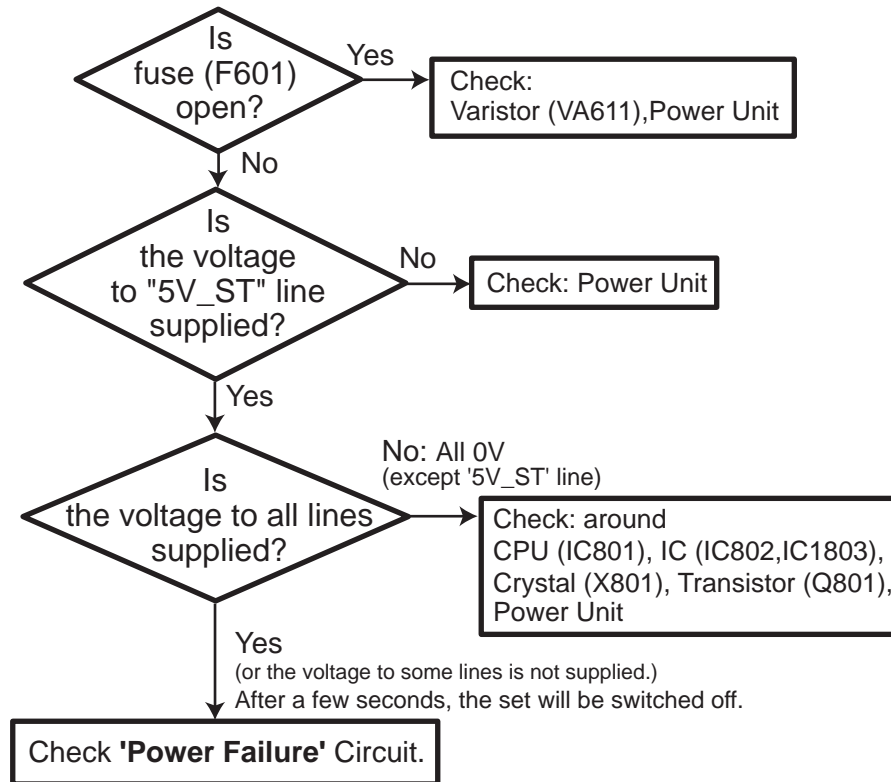


## IC1201, IC1251 Video and Audio Select



# TROUBLESHOOTING FLOW CHARTS

## NO POWER



## Power Failure Line

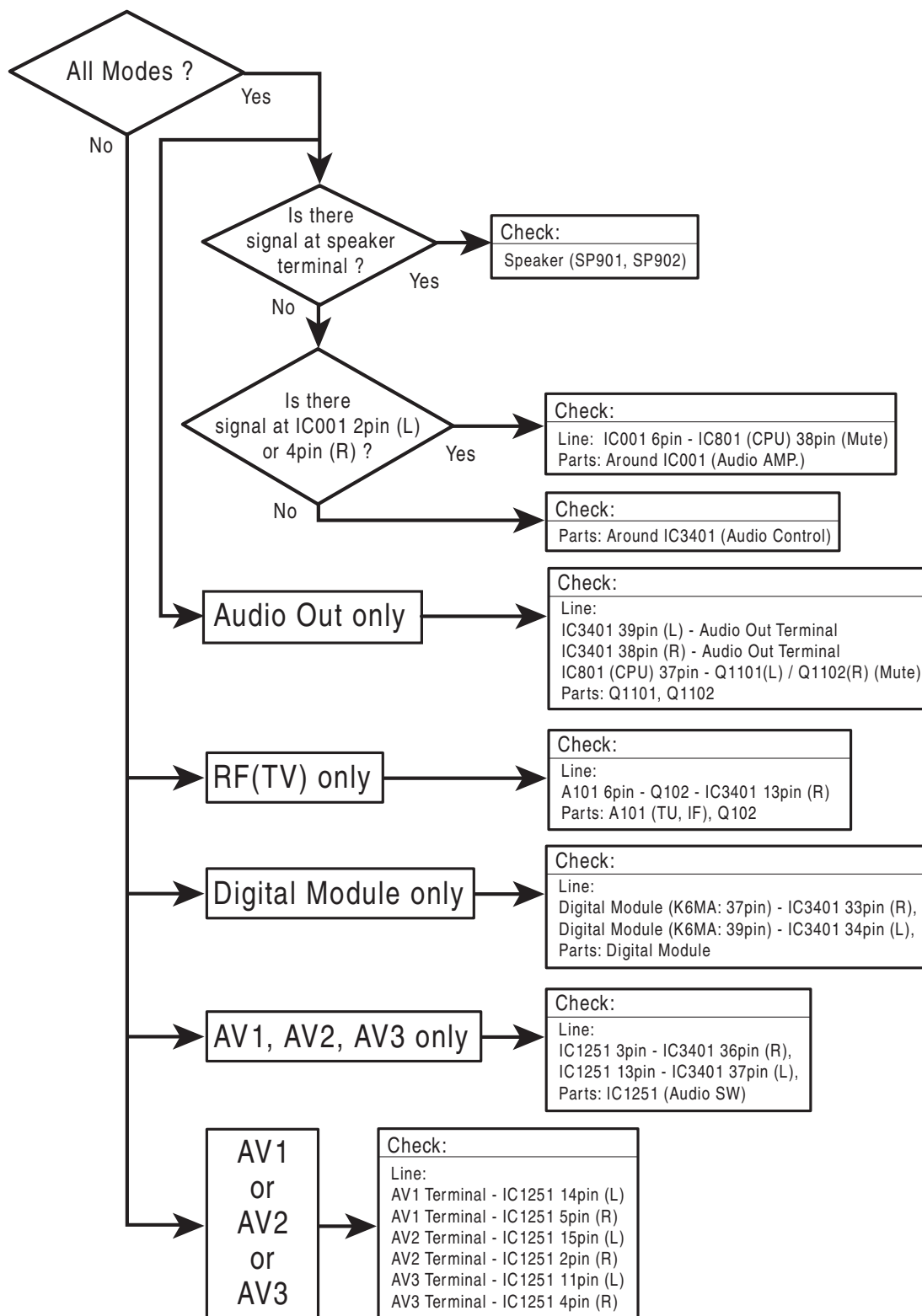
CPU (IC801) 32pin

Q803-Q804

Diode	Detected Voltage
D1605	D5V
D1606/D1607	D3.3V
D1603	12V_AMP
D1602	A9V
D1601	A5V
D1604	TU33V

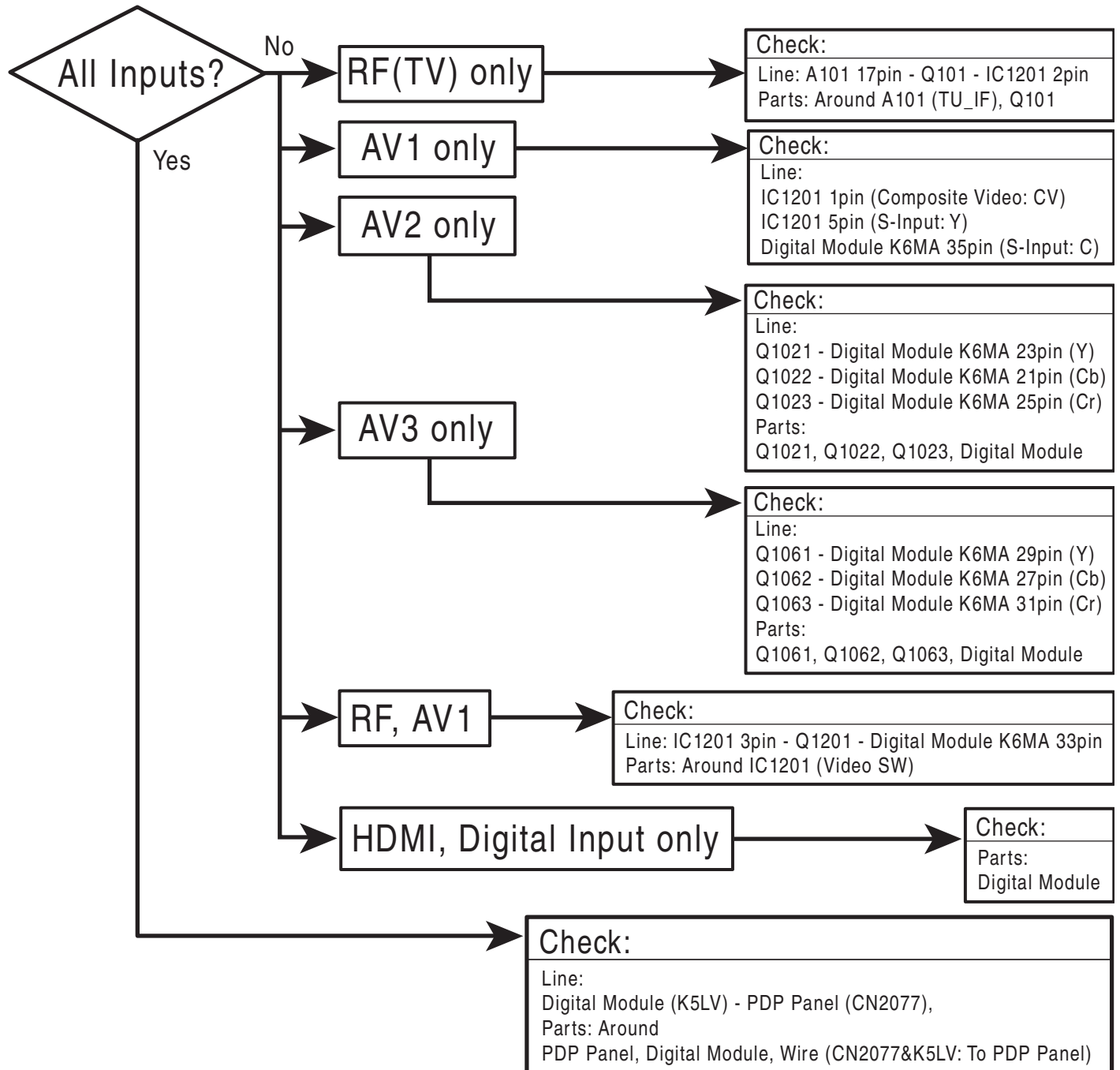


## NO AUDIO



# TROUBLESHOOTING FLOW CHARTS (Cont.)

NO VIDEO



# CONTROL PORT FUNCTIONS

## System Control (CPU : IC801)

Pin	Name	Function	I/O	Description
1	CVin	Reserve	IN	GND (0Vdc)
2	P70/INT0/TOLCP	LINE OFF	IN	Detect AC Voltage Reduction (Normal: High)
3	P71/INT1/TOHCP	Reserve	OUT	(Open)
4	P72/INT2/TOIN	Reserve	OUT	(Open)
5	P73/INT3/TOIN	RC in	IN	RC Input
6	AN0	Key in	IN	Key Input
7	AN1	AFT S-Figure in	IN	AFT S-Figure Input
8	P82/AN2	Reserve	OUT	(Open)
9	P83	Reserve	OUT	(Open)
10	P84/AN4	Panel Size Option	IN	32V: High, 26V: Low
11	P85/AN5	Reserve	IN	(Open)
12	P86/AN6	Reserve	IN	(Open)
13	P87/AN7	S IN	IN	S-Detect
14	P30/SO6	TV Relay out	OUT	POWER ON/OFF SW (Power On: High)
15	SB6	IIC-BUS for NV	I/O	(DATA) Active 'L' for IIC data NV
16	SCK6	IIC-BUS for NV	OUT	(CLOCK) Active 'L' for IIC clock NV
17	SB6	IIC-BUS for TV	I/O	(DATA) Active 'L' for IIC data TV
18	SCK6	IIC-BUS for TV	OUT	(CLOCK) Active 'L' for IIC clock TV
19	DBGP0	DBGP0	I/O	Terminal for De-Bug 1
20	DBGP1	DBGP1	I/O	Terminal for De-Bug 2
21	DBGP2	DBGP2	IN	Terminal for De-Bug 3
22	PC0	ENA/DATA1	I/O	Writing on board (ENA/DATA1)
23	PC1	DATA0	I/O	Writing on board (DATA0)
24	PC2	CLK	IN	Writing on board (CLK)
25	PC3	TB in	IN	Detection for Video Signal (Time base: H)
26	PC4	Reserve	OUT	(Open)
27	P00	WDT out	OUT	Watch dog timer (Reserved: Open)
28	P01	AV SW1	OUT	Selection for AV Selector 1
29	P02	AV SW2	OUT	Selection for AV Selector 2
30	P03	AV SW3	OUT	Selection for AV Selector 3
31	P04	Reserve	OUT	(Open)
32	P05	Power Fail-1 in	IN	TV Power Error (Error: Low)
33	P06	STATUS in	IN	For factory use
34	P07	Ack out	OUT	For factory use
35	P20/SO1	Reserve	OUT	(Open)
36	P21/S11/SB1	Power Fail-2 in	IN	LVDS Power Error (Error: Low)
37	P22/SCK1	A-OUT Mute	OUT	Audio Out Mute (On: High)
38	P23	Audio MUTE	OUT	Audio Mute (On: High)
39	UTX	UART OUT	OUT	Digital Module microcomputer piece confidence
40	URX	UART IN	IN	Digital Module microcomputer piece confidence
41	P26/OSDCK1	THEM DET	OUT	(Open)
42	BL2	LED ON	OUT	(Open)
43	VSS2	Vss	IN	GND (0Vdc)
44	VDD2	Power IN	IN	5V (5Vdc±10%)
45	P10/SO0	Reserve	OUT	(Open)
46	P11/SI0/SB0	Reserve	OUT	(Open)

## CONTROL PORT FUNCTIONS (Cont.)

### System Control (CPU : IC801 Cont.)




Pin	Name	Function	I/O	Description
47	P12/SCK0	CRT/FPD	IN	Option Setting (CRT: High, FPD: Low)
48	P13	PDP/LCD	IN	Option Setting (PDP: High, LCD: Low)
49	PWMA	Reserve	OUT	(Open)
50	PWMB	Reserve	OUT	(Open)
51	PWMC	Reserve	OUT	(Open)
52	P17/PWMD	Reserve	OUT	(Open)
53	BL1	Reserve	OUT	(Open)
54	B	Reserve	OUT	(Open)
55	G	Reserve	OUT	(Open)
56	R	Reserve	OUT	(Open)
57	HSB	Hsync	IN	GND (0Vdc)
58	VSb	Vsync	IN	GND (0Vdc)
59	VSS1	Vss	IN	GND (0Vdc)
60	XT1	Xin	IN	Main Clock IN/OUT Fosc=8MHz
61	XT2	Xout	OUT	( Should be connected between IN/OUT pins.)
62	VDD1	Power IN	IN	5V (5Vdc±10%)
63	RESB	RESET in	IN	Reset terminal
64	FILT	FILT out	OUT	PLL Filter

### Mode Switching Table

Mode	AVSW1 (pin28)	AVSW2 (pin29)	AVSW3 (pin30)
Analog Tuner	Low	High	Low
AV1(CVBS)	High	High	Low
AV1(S)	High	Low	Low
AV2(Component 2)	Low	Low	High
AV3(Component 3)	Low	Low	Low
Digital Tuner or HDMI	Low	Low	Low
HDMI (DVI)	Low	Low	Low

# SCHEMATIC DIAGRAMS

## NOTES ON SCHEMATIC DIAGRAMS

1. All resistance values in ohms K=1,000 M=1,000,000.
2. Resistors specified with resistance value are "1/6DJ."
3. Resistors specified with type of resistor, tolerance and resistance value are "1/4."
4. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in  $\mu\text{F}$  (Micro Farad), and the values more than 1 are in pF.
5. All capacitors are 50 WV rating unless otherwise noted.
6. Unless otherwise noted on schematic, voltage reading taken with VOM from point indicated to chassis ground. Voltage reading taken using color-bar signal VHF channel 5, all controls at normal. Line voltage at 120 volts. Some voltages may vary with signal strength.
7. Waveforms were taken with color-bar signal and controls set for normal picture. Waveforms marked with an \* may vary with signal strength.
8. The Symbol  indicates a fusible resistor, which protects the circuit from possible short circuits.
9. Parts enclosed with  are related with X-radiation.
10. Isolation border line. Cold Side  Hot Side
11. Schematic part location numbers may not always match the schematic symbols.  
The schematic symbols and part descriptions are correct and should be used.  
The part descriptions will be listed under the location number in the parts list.



### **ELECTROSTATICALLY SENSITIVE DEVICES**

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

### **SERVICE NOTES:**

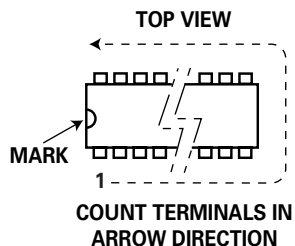
1. When replacing parts on circuit boards, clamp the lead wires to terminals before soldering.
2. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8) from circuit board.
3. Keep wires away from high voltage and high temperature components.

### **PRODUCT SAFETY NOTICE**

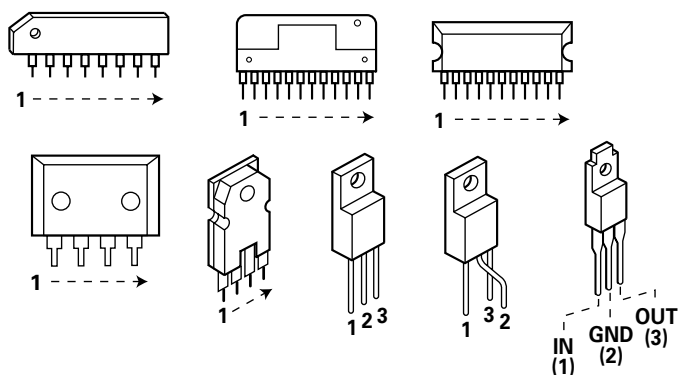
**THE COMPONENTS DESIGNATED BY A STAR (★) ON THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A STAR NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.**

# IC, DIODE, AND TRANSISTOR PIN LAYOUTS

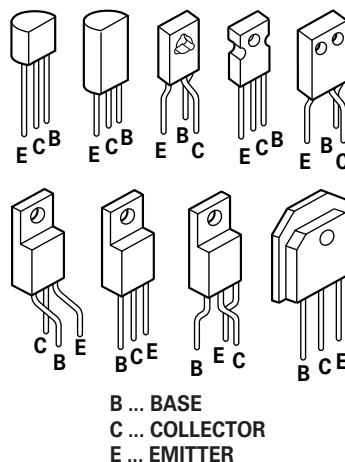
## INTEGRATED CIRCUITS



### SIDE VIEW

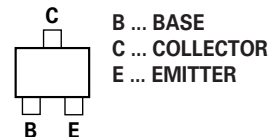


## TRANSISTORS

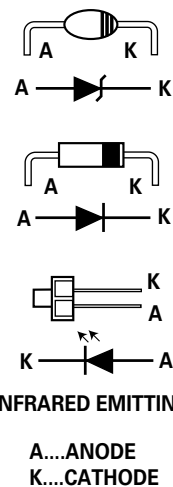


## CHIP TRANSISTORS

### TOP VIEW

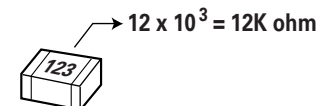


## DIODES



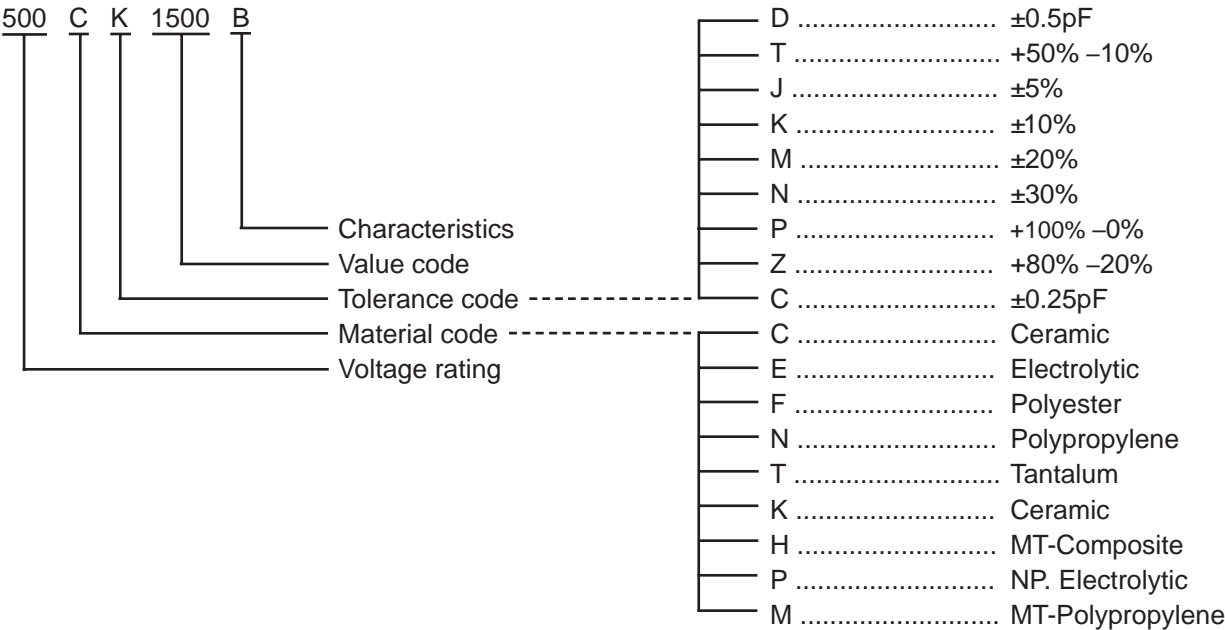
## CHIP RESISTORS

### TOP VIEW

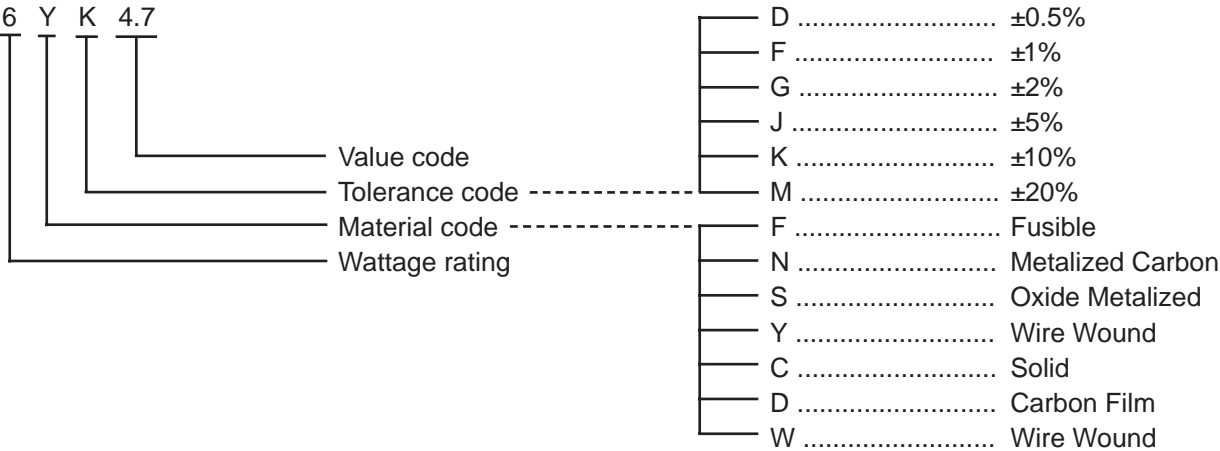


# CAPACITOR AND RESISTOR CODE CHART

## CAPACITOR (Example)

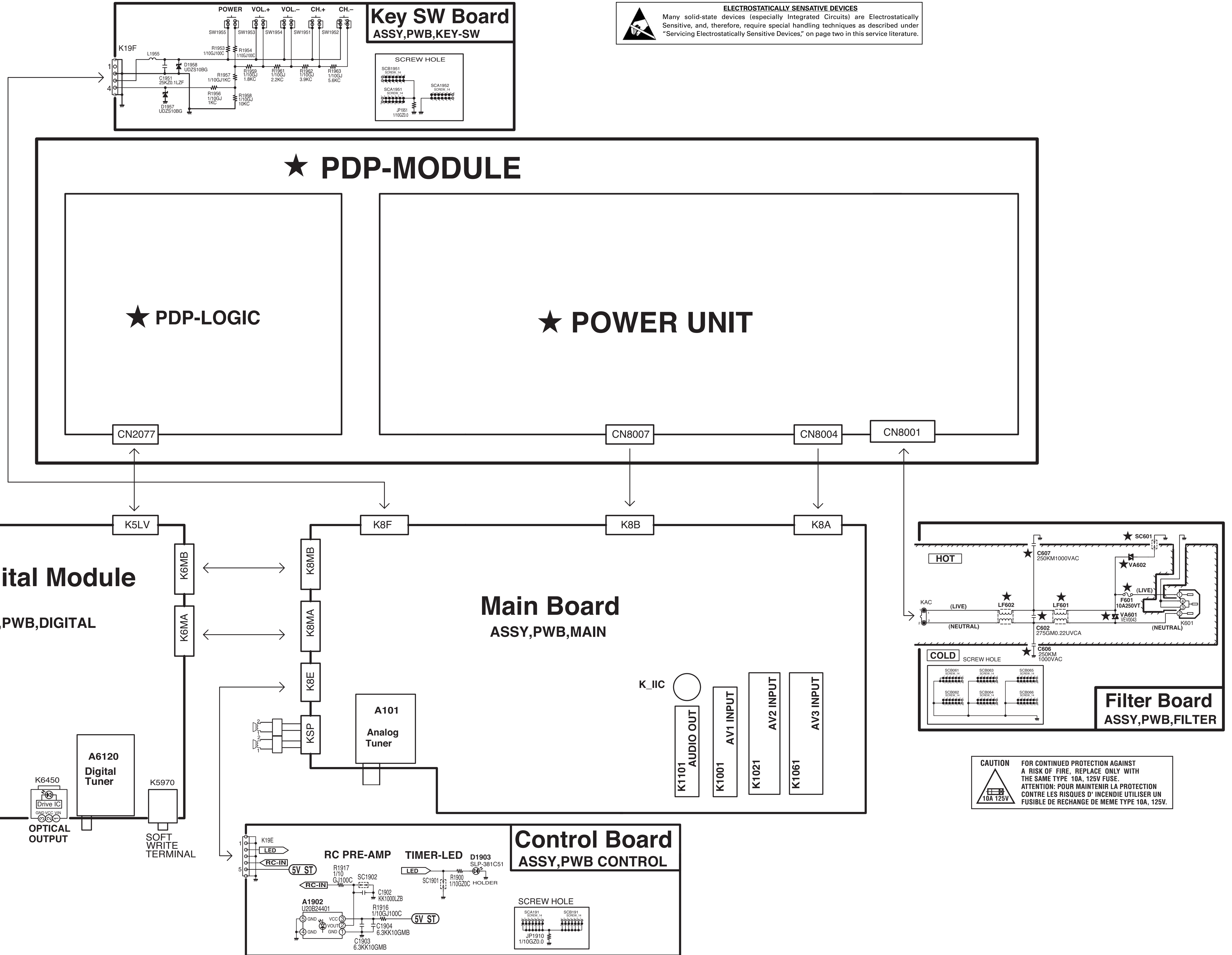


## RESISTOR (Example)

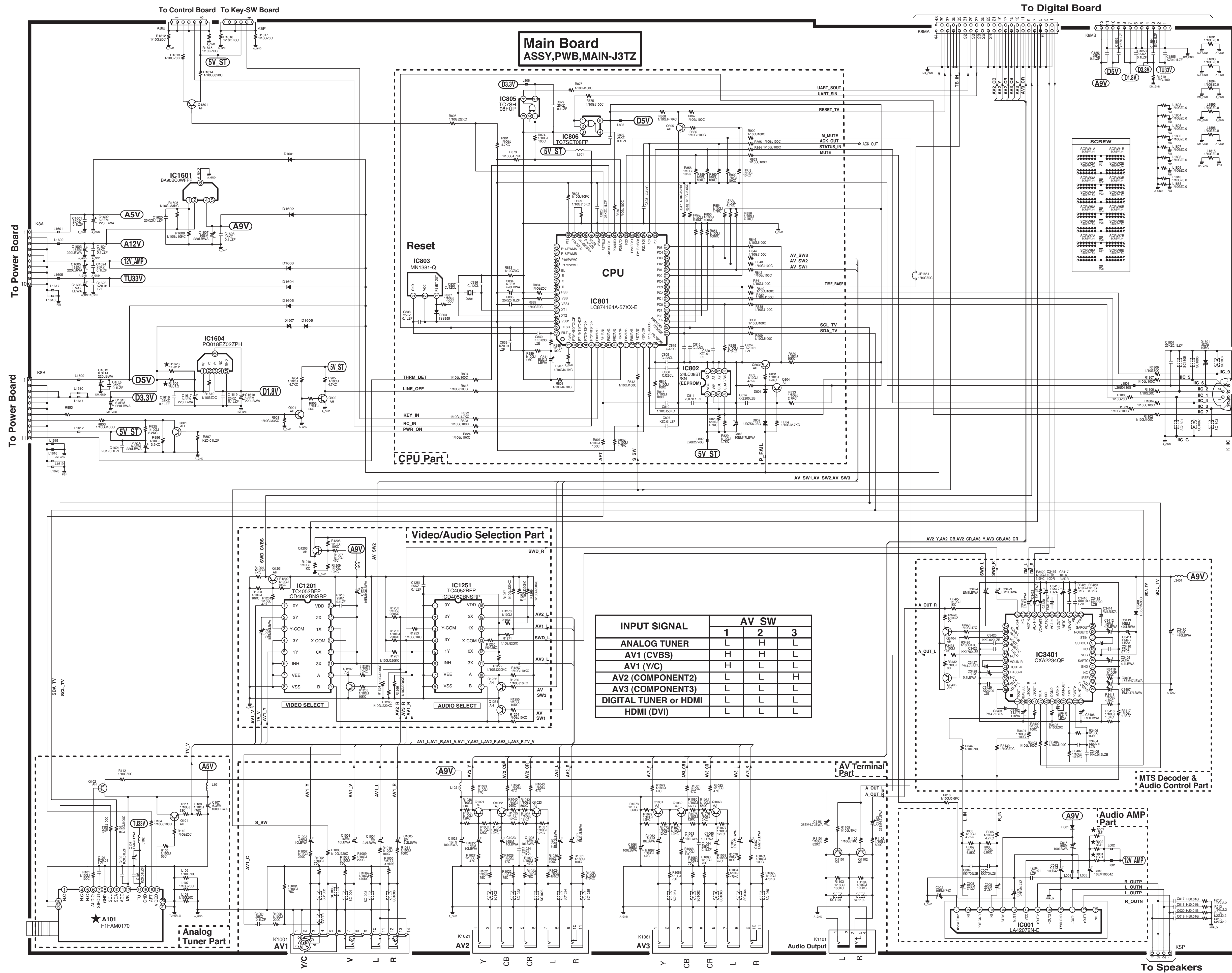


For parts or service contact  
**Sanyo Manufacturing Corporation**  
**P.O. Box 2000**  
**3333 Sanyo Road**  
**Forrest City, Arkansas 72335-2000**





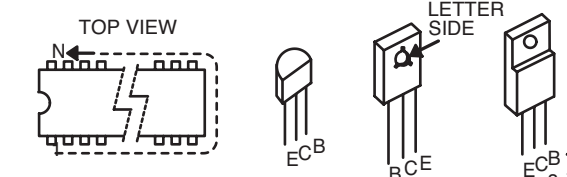




K IIC	
1PIN	ENA
2PIN	SDA
3PIN	SCL_ROM
4PIN	STATUS
5PIN	SDA_ROM
6PIN	5V_STBY
7PIN	RESET
8PIN	GND
9PIN	CLK

NOTES;

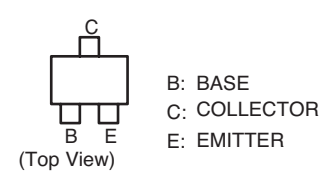
1. RESISTORS SPECIFIED WITH RESISTANCE VALUE ARE "1/6DJ"
2. RESISTORS SPECIFIED WITH TYPE OF RESISTOR, TOLERANCE AND RESISTANCE VALUE ARE "1/4".
3. ALL CAPACITORS ARE 50WV RATING UNLESS OTHERWISE NOTED.
4. PARTS MARKED WITH ☐ ARE RELATED WITH X-RADIATION.
5. THICK LINES ARE 15WATTS SUPPLY LINE.
6. BOTTOM VIEW OF TR & IC.



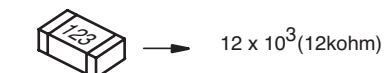
- ## 7. ISOLATION BORDER LINE



- ## 8.CHIP TRANSISTORS



- ## 9. CHIP RESISTORS



10. "J" : JUMPER WIRE  
"X" : PART NOT USED

LIST OF REPLACEABLE TRANSISTORS (2SA9333 TYPE)				
	14TH CODE	2SA9333	2SA1015	2SA564A
AB	7T200181	R	Y.G.R	R
AC	7T200182	Q.R	O.Y.G.R	Q.R
(2SA1037K CHIP TYPE)				
	14TH CODE	2SA1179	2SA1037	
AJ	7T200221	M6,M7	R.S	
(2SC1740S TYPE)				
	14TH CODE	2SC1740S	2SC945A	2SC1515
AD	7T200183	Q.R	QA	Y.G.R
AE	7T020020	Q.R.S	RA,QA,PA	O.Y.G.R
(2SC2412K CHIP TYPE)				
	14TH CODE	2SC2812	2SC2412K	
AH	7T200220	L6,L7	R.S	R